

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
CONOCOPHILLIPS COMPANY
LAKE CHARLES REFINERY - EXCEL PARALUBES
PROPOSED PART 70 AIR OPERATING PERMIT MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on a Part 70 air operating permit modification for ConocoPhillips Company, P. O. Box 37, Westlake, LA 70669 for the Lake Charles Refinery - Excel Paralubes. **The facility is located at 2200 Old Spanish Trail, Westlake, Calcasieu Parish.**

ConocoPhillips requested to update emission information for the Part 70 air operating permit for its Lake Charles Refinery - Excel Paralubes. There is no physical modification project proposed with this modification.

Lake Charles Refinery (LCR) processes crude oils into chemical and petrochemical feedstock, gasoline, heating oil, residual fuels, petroleum coke, lube oils, and other miscellaneous products. Estimated emissions from the Excel Paralubes in tons per year are as follows:

| <u>Pollutant</u> | <u>Before</u> | <u>After</u> | <u>Change</u> |
|------------------|---------------|--------------|---------------|
| PM ₁₀ | 27.60 | 27.89 | + 0.29 |
| SO ₂ | 287.02 | 317.22 | + 30.20 |
| NO _x | 141.23 | 161.37 | + 20.14 |
| CO | 108.18 | 192.20 | + 84.02 |
| VOC | 148.18 | 145.74 | - 2.44 |

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Monday, May 28, 2007.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed permit, and the statement of basis for the permit are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at the Calcasieu Parish Library, Westlake Branch, 937 Mulberry Street, Lake Charles, LA 70669 and the Calcasieu Parish Library, Sulphur Regional Branch, 1160 Cypress Street, Sulphur, LA 70663.

Inquiries or requests for additional information regarding this permit action should be directed to Dr. Qingming Zhang, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3240.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 2538, Permit Number 2627-V3, and Activity Number PER20060043.

Scheduled Publication Date: April 23, 2007

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Refinery – Excel Paralubes
Agency Interest No. 2538
ConocoPhillips Company
Westlake, Calcasieu Parish, Louisiana

I. Background

Lake Charles Refinery is a fully integrated petroleum refinery facility, which was first permitted in 1975. It is organized into five operating areas: Area A, Area B, Area C, Area D, and Excel Paralubes. ConocoPhillips Company (formerly Conoco Inc.) presently operates the refinery under the following permits:

| | |
|------------------|--|
| PSD-LA-390 | granted 08/10/1981 |
| PSD-LA-419 | granted 10/08/1981 |
| PSD-LA-533 (M-3) | granted 07/02/1993 |
| PSD-LA-584 (M-4) | granted 05/19/2006 |
| PSD-LA-699 | granted 05/28/2004 |
| 2623-V3 | granted 08/24/2005 (for Area A) |
| 2624-V5 | granted 10/02/2005 (for Area B) |
| 2625-V4 | granted 08/24/2005 (for Area C) |
| 2626-V3 | granted 08/24/2005 (for Area D) |
| 2627-V2 | granted 08/24/2005 (for Excel Paralubes) |

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by ConocoPhillips Company on November 9, 2006 requesting a Part 70 operating permit modification. Additional information dated November 30, 2006 and March 5, 2007 was also received.

III. Description

Lake Charles Refinery (LCR) processes crude oils into chemical and petrochemical feedstocks, gasoline, heating oil, residual fuels, petroleum coke, lube oils, and other miscellaneous products. To refine the crude, it utilizes crude-topping units, crude vacuum units, a fluid catalytic cracking unit, an alkylation unit, a polymerization unit, catalytic reformers, desulfurization units, petroleum coking units, a calcining unit, sulfur recovery units, a hydrodewaxer unit, a hydrofinisher unit and associated infrastructure including plant utilities. Lake Charles Refinery is organized into Area A, Area B, Area C, Area D, and Excel Paralubes. This permit covers Excel Paralubes, which consists of the following process units:

Excel Paralubes Utilities

Excel area utility systems serve vital functions in the operation of various process units. Process water is collected and transferred to LCR for treatment. The surface water collection system collects water from paved process areas and roadways.

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Steam is produced in several units by utilizing waste heat and a 600 psig boiler. Instrument and utility air are provided by on-site compression. Nitrogen and oxygen are supplied by off-site facilities. Fuel gas is supplied by LCR, commercial natural gas, the Rich Amine Flash Drum, and from the Hydrogen Membrane Unit. Emission sources include a boiler, and process and wastewater fugitives.

Hydrodewaxer/Hydrofinisher Units

Hydrodewaxer/Hydrofinisher (HDW/HDF) is used to catalytically dewax and hydrofinish waxy oil feedstocks to produce low pour point lube oil base stocks. The unit is designed to block feed Waxy Lube Stocks (WLS) to produce base oils at several nominal viscosity grades. The HDW/HDF feed is WLS that has been processed into suitable feed in the Hydrocracker (HDC). HDW/HDF products are transferred to storage or to the appropriate processing units for additional processing. Emission sources in this unit include heaters and process fugitives.

Rail and Truckloading

The truck and rail facilities are used for loading various products at Excel Paralubes. Truck loading is utilized for base oil products, diesel, and sulfur loading. Railcar loading is utilized for base oil products and sulfur loading. Emissions sources in this unit include loading fugitives and process fugitives.

Lube Oil Hydrocracker Unit (HDC)

This unit is used to process Vacuum Gas Oil (VGO) and other similar feedstocks. HDC products consisting of Waxy Lube Stocks (WLS) are transferred to storage or to the appropriate processing units for fuel and lube stock production. Emissions sources in this unit include heaters and process fugitives.

No. 4 Amine Regenerator Unit

Amine Regeneration Unit (ARU) removes hydrocarbons and hydrogen sulfide from rich amine solution that comes from the amine contactors in the Hydrocracker (HDC) and the Saturate Gas Recovery (SGR) units. Additionally, amine from this unit and SRU tail gas units are processed through a Heat Stable Salt Removal (HSSR) System. Proccss fugitives and storage tanks are the only emissions from this unit.

No. 4 Sour Water Stripper Unit

No. 4 Sour Water Stripper Unit removes hydrogen sulfide (H_2S) and ammonia (NH_3) from sour water produced in various units. H_2S and NH_3 are contaminants in the water that must be reduced to low concentrations before they enter the wastewater

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facility. The recovered gases are sent to the SRUs. Process fugitives and storage tanks are the only emissions from this unit.

Sulfur Recovery Units (SRU)

The Sulfur Recovery Units convert hydrogen sulfide (H_2S) feed into elemental sulfur. A secondary function of this unit is the combustion of ammonia (NH_3) feed into nitrogen and water. A Sulfur Recovery Unit consists of a Claus unit, a converter section, a tail gas unit, and a thermal oxidizer section. Emission sources in this unit include sulfur recovery trains routed through thermal oxidizers, loading fugitives, and process fugitives.

Hydrogen Compression Unit

The Hydrogen Compression Unit is used to compress hydrogen used in the hydrocracker and hydrodewaxer/hydrofinisher, and a hydrogen membrane rejects non-hydrogen material to fuel gas. Process fugitives are the only emissions from this unit.

Saturate Gas Recovery Unit (SGR)

Saturate Gas Recovery Unit (SGR) processes light hydrocarbon vapors and liquids from Lube Oil Hydrocracker, Hydrodewaxer/Hydrofinisher, and other process units. The SGR consists of wet gas compression, amine contactors to remove H_2S , and light hydrocarbon fractionation. SGR products are transferred to storage tanks or to the appropriate downstream units for further processing. Process fugitives are the only emissions from this unit.

West Flare

The West Flare provides a means for safely controlling vapors and/or liquids released from process units. The vapors are routed to the flare where they can be safely destroyed. The flare system is also used in startups, shutdowns, and malfunctions to control releases from depressuring and purging materials to the flare. There are two flare header systems in the Excel area, a high pressure system and a low pressure system, each having separate knock-out drums. The liquids are recovered in the knockout drums and pumped to slop tanks. The only emission sources in this unit are the process fugitives and the flare.

Y-6 Cooling Tower

The Y-6 cooling tower is an induced-draft, non-contact cooling tower utilized to remove heat from process units. Cooling water tower fugitives are the only emissions from this unit.

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Excel Tank Farm

The Excel tank farm consists of fixed cone roof storage tanks for vacuum gas oils and other similar feedstocks, and product storage of lube oil base stocks, diesel, and other similar products. The emission sources in this unit include storage tanks and process fugitives.

With this permit modification, ConocoPhillips proposes to make the following updates to the permit:

- ConocoPhillips has received approval from the EPA for an alternative compliance option for the West Flare FL-76002 for NSPS Subpart J requirements. The approval states that the flare may use option (a) under Paragraph 156 of the Consent Decree as its method of demonstrating compliance with NSPS Subpart J requirements. This option limits the total SO₂ emissions from this flare to 500 lb/day during a 24-hour period. A specific requirement is added to the permit for this option.
- Correct the normal and maximum operating rates for the West Flare FL-76002. The previously permitted values were not corrected. This correction does not reflect a change in the operation of the flare and there is no change in emission rates for this flare.
- Create a heater emission cap, Excel Heater Cap, for all of the process heaters to provide operational flexibility. The total proposed fired duty for the cap will be 232.2 MM BTU/h on a Higher Heater Value (HHV) basis, which is the same as the combined fired duties previously permitted for all heaters under the cap.
- Change CO emissions factors from 0.02 lb/MM BTU (average/maximum) to 0.04 lb/MM BTU on average, with a maximum rate of 0.06 lb/MM BTU. These changes correspond to the emission limits for heaters by the Consent Decree, and create consistency in the emission calculation methodologies across the facility.
- Update emission rates for the LOHC Loading operations.
- Update emission rates and throughput for LOHC Truck Loading operations.
- Split the current Excel Lube Oil Tank Cap into two caps, one for lube oil feedstocks and products, and one for diesel and heavier products.
- Update storage tank emissions for T-71001, T-66001, and T-66003 using the most recent throughput and vapor pressure data and the EPA TANKS 4.09 software.

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- Update storage tank emissions for D-66011.
- Change Tanks T-76012, T-66002, and T-66004 from emission points to insignificant activity tanks.
- Remove tanks D-76020, T-76003, and T-76004 from the permit.
- Update emission estimations for the No. 4/No. 5 SRU.
- Update the LOHC Sulfur Loading (Rail/Truck) emissions based on recent engineering calculations.
- Update regulatory review for all sources.

Estimated emissions in tons per year are as follows:

| <u>Pollutant</u> | <u>Before</u> | <u>After</u> | <u>Change</u> |
|------------------|---------------|--------------|---------------|
| PM ₁₀ | 27.60 | 27.89 | + 0.29 |
| SO ₂ | 287.02 | 317.22 | + 30.20 |
| NO _x | 141.23 | 161.37 | + 20.14 |
| CO | 108.18 | 192.20 | + 84.02 |
| VOC | 148.18 | 145.74 | - 2.44 |

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

| Pollutant | Before | After | Change |
|-----------------------------|--------|--------|--------|
| 1,2-Dichloroethane | - | < 0.01 | < 0.01 |
| 1,3-Butadiene | < 0.01 | < 0.01 | - |
| 2,2,4-Trimethylpentane | 0.39 | 0.37 | - 0.02 |
| Aniline | 0.05 | 0.04 | - 0.01 |
| Benzene | 0.48 | 0.47 | - 0.01 |
| Biphenyl | 0.11 | 0.13 | + 0.02 |
| Carbon Disulfide | 0.05 | 0.29 | + 0.24 |
| Carbonyl Sulfide | - | 0.20 | + 0.20 |
| Cumene | 0.07 | 0.06 | - 0.01 |
| Diethanolamine | 0.04 | 0.04 | - |
| Ethyl Benzene | 0.40 | 4.34 | + 3.94 |
| Methanol | < 0.01 | < 0.01 | - |
| Methyl Tertiary Butyl Ether | < 0.01 | < 0.01 | - |

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VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

| Pollutant | Before | After | Change |
|--------------------------------------|-------------|--------------|---------------|
| n-Hexane | 0.87 | 1.42 | + 0.55 |
| Naphthalene (and Methyl Naphtalenes) | 1.07 | 1.47 | + 0.40 |
| para-Phenylenediamine | 0.04 | 0.04 | - |
| Phenol | 0.06 | 0.05 | - 0.01 |
| Polynuclear Aromatic Hydrocarbons | 0.37 | 0.36 | - 0.01 |
| Pyridine | 0.05 | 0.04 | - 0.01 |
| Quinoline | 0.04 | 0.04 | - |
| Styrene | < 0.01 | < 0.01 | - |
| Toluene | 1.36 | 1.36 | - |
| Vinyl Acetate | 0.04 | 0.04 | - |
| Xylene (mixed isomers) | 1.48 | 1.48 | - |
| Total | 6.99 | 12.26 | + 5.27 |

Other VOC (TPY): 133.48

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) review is not required.

This facility is part of a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit

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condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2007; and in the <local paper>, <local town>, on <date>, 2007. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Dispersion Model(s) Used: <None>

| Pollutant | Time Period | Calculated Maximum Ground Level Concentration | Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS}) |
|-----------|-------------|---|---|
| | | | |
| | | | |

VIII. General Condition XVII Activities

| Work Activity | Schedule | Emission Rates (tons/year) |
|---|------------------|-------------------------------|
| Pipelines and Associated Equipment Clearing | 2,190 times/yr | VOC: 1.56 |
| Control Device Inspections | 1,460 times/yr | VOC: 1.04 |
| Control Device Service | 208 times/yr | VOC: 2.97 |
| Equipment Cleaning | 730 times/yr | VOC: 1.73 |
| Valve Maintenance | 2,190 times/yr | VOC: 1.56 |
| Miscellaneous Equipment Preparation | 1,460 times/yr | VOC: 4.17 |
| Compressor Maintenance | 48 times/yr | VOC: 0.34 |
| Rupture Disc Inspections | 7,300 times/yr | VOC: 4.91 |
| Tank Vent Inspections | 24 times/yr | VOC: 3.84 |
| Vent Maintenance | 48 times/yr | VOC: 0.05 |
| Filter and Strainer Changeouts | 2,190 times/yr | VOC: 1.56 |
| Draining Compressor Bottles | 8,760 bottles/yr | VOC: 2.08 |

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| Work Activity | Schedule | Emission Rates (tons/year) |
|--|------------------|------------------------------------|
| Pump Maintenance | 2,190 times/yr | VOC: 2.60 |
| Instrument Maintenance | 26,280 times/yr | VOC: 3.74 |
| Recharging Catalyst | 96 times/yr | PM ₁₀ : 0.03; VOC: 1.73 |
| Sampling | 255,500 times/yr | VOC: 2.11 |
| Tank Gauging | 6,570 times/yr | VOC: 0.74 |
| Vessel Preparation | 2,190 times/yr | VOC: 3.11 |
| Vacuum Truck Operations | 2,190 times/yr | VOC: 3.83 |
| Sludge Cleanout of Process Equipment | 208 times/yr | VOC: 1.48 |
| Heater Exchanger Draining/Cleanout | 312 times/yr | VOC: 1.71 |
| Sludge Removal from Tank, Pond, and Basin | 208 times/yr | VOC: 4.73 |
| Carbon Bed Recharge and Replacement | 4,380 times/yr | VOC: 0.58 |
| Sump Solids Removal | 520 times/yr | VOC: 2.22 |
| Temporary Storage (60 Frac Tanks/Roll-Off Boxes) | 12 turnovers/yr | VOC: 3.61 |
| Floating Roof Landings | 4 times/yr | VOC: 4.67 |
| Propane Moisture Testing | 1,825 times/yr | VOC: 4.74 |
| Changeouts of Salt Dryers in Diesel Streams | 1,095 time/yr | VOC: 3.13 |
| Roll Off Boxes Sent Off-side | 105 boxes/yr | VOC: 3.50 |
| Miscellaneous Painting of Equipment | 6,570 gal/yr | PM ₁₀ : 3.78; VOC: 4.68 |

IX. Insignificant Activities

| ID No. | Description | Citation |
|--------|---|---------------------------|
| | Caustic Storage Tanks Containing no VOCs | [LAC 33:III.501.B.5.B.40] |
| | Day Tanks/Chemical Injection Tanks (TVP < 0.5 psia, < 10,000 gal) | [LAC 33:III.501.B.5.A.3] |
| | Empty Drums and Equipment with Negligible Emissions | [LAC 33:III.501.B.5.D] |
| | Storage and Use of Water-Treating Chemicals | [LAC 33:III.501.B.5.B.8] |
| | Sulfuric Acid Storage Tanks with Negligible H ₂ SO ₄ Emissions | [LAC 33:III.501.B.5.D] |
| | Lab. Equipment/process Vents for Routine Chemical or Physical Analysis | [LAC 33:III.501.B.5.A.6] |
| | Water Storage Tanks containing no VOCs | [LAC 33:III.501.B.5.C.1] |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No. | Description | LAC 33:III.Chapter | | | | | | | | | | | | | | | | | |
|--------|---|--------------------|---|----|----|----|------|-------|------|------|------|------|------|----|-----|-----|-----|----|-----|
| | | 5▲ | 9 | 11 | 13 | 15 | 2103 | 2104* | 2109 | 2111 | 2113 | 2141 | 2122 | 22 | 29* | 51* | 53* | 56 | 59* |
| GRP037 | Excel Paralubes | 1 | 1 | 1 | 1 | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 |
| ARE014 | REMED-E - Excel Paralubes Site Remediation Activities | | | | | | | | | | | | | | | | | | |
| EQT327 | B-76001 - High Pressure Boiler (EP-109) | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| EQT328 | D-66011 - Dome Roof Tank (EP-699) | | | | | | | | | | | | | 1 | | | | | |
| EQT330 | FL-76002 - West Flare (EP-110) | 1 | 1 | 1 | | | | | | | | | | | | | | | |
| EQT331 | H-11001 - HDC Hydrogen Heater (EP-101) | | 1 | 1 | 1 | | | | | | | | | | | | | | |
| EQT332 | H-11002 - HDC Atmospheric Tower Heater (EP-118) | | | | | | | | | | | | | | | | | | |
| EQT333 | H-11003 - HDC Vacuum Tower Heater (EP-119) | | | | | | | | | | | | | | | | | | |
| EQT334 | H-12001 - HDW/HDF Reactor Charge Heater (EP-102) | | | | | | | | | | | | | | | | | | |
| EQT335 | H-12002 - HDW/HDF Atmospheric Heater (EP-144) | | | | | | | | | | | | | | | | | | |
| EQT336 | H-12003 - HDW/HDF Vacuum Tower Heater (EP-103) | | | | | | | | | | | | | | | | | | |
| EQT337 | RAILCAR - LOHC Railcar Loading (EP-114) | | | | | | | | | | | | | | | 1 | | | |
| EQT338 | SULFURLD - LOHC Sulfur Loading (Rail/Truck) (EP-115) | | | | | | | | | | | | | | | | 1 | | |

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| ID No. | Description | LAC 33.III.Chapter | | | | | | | | | | | | | | | | | |
|--------|-----------------------------------|--------------------|---|----|----|----|------|-------|------|------|------|------|------|----|-----|-----|-----|----|-----|
| | | 5▲ | 9 | 11 | 13 | 15 | 2103 | 2104* | 2109 | 2111 | 2113 | 2141 | 2122 | 22 | 29* | 51* | 53* | 56 | 59* |
| EQT339 | T-66001 - Cone Roof Tank (EP-695) | | | | | | | | | | | | | | | | | | |
| EQT341 | T-66003 - Cone Roof Tank (EP-697) | | | | | | | | | | | | | | | | | | |
| EQT344 | T-70001 - Cone Roof Tank (EP-701) | | | | | | | | | | | | | | | | | | |
| EQT345 | T-70002 - Cone Roof Tank (EP-702) | | | | | | | | | | | | | | | | | | |
| EQT346 | T-70003 - Cone Roof Tank (EP-703) | | | | | | | | | | | | | | | | | | |
| EQT347 | T-70004 - Cone Roof Tank (EP-704) | | | | | | | | | | | | | | | | | | |
| EQT348 | T-70005 - Cone Roof Tank (EP-705) | | | | | | | | | | | | | | | | | | |
| EQT349 | T-70006 - Cone Roof Tank (EP-706) | | | | | | | | | | | | | | | | | | |
| EQT350 | T-70009 - Cone Roof Tank (EP-709) | | | | | | | | | | | | | | | | | | |
| EQT351 | T-70010 - Cone Roof Tank (EP-710) | | | | | | | | | | | | | | | | | | |
| EQT352 | T-70011 - Cone Roof Tank (EP-711) | | | | | | | | | | | | | | | | | | |
| EQT353 | T-70012 - Cone Roof Tank (EP-712) | | | | | | | | | | | | | | | | | | |
| EQT354 | T-70013 - Cone Roof Tank (EP-713) | | | | | | | | | | | | | | | | | | |
| EQT355 | T-70014 - Cone Roof Tank (EP-714) | | | | | | | | | | | | | | | | | | |
| EQT356 | T-70015 - Cone Roof Tank (EP-715) | | | | | | | | | | | | | | | | | | |
| EQT357 | T-70016 - Cone Roof Tank (EP-716) | | | | | | | | | | | | | | | | | | |
| EQT358 | T-70017 - Cone Roof Tank (EP-717) | | | | | | | | | | | | | | | | | | |
| EQT359 | T-70018 - Cone Roof Tank (EP-718) | | | | | | | | | | | | | | | | | | |
| EQT360 | T-70019 - Cone Roof Tank (EP-719) | | | | | | | | | | | | | | | | | | |
| EQT361 | T-70020 - Cone Roof Tank (EP-720) | | | | | | | | | | | | | | | | | | |
| EQT362 | T-70021 - Cone Roof Tank (EP-721) | | | | | | | | | | | | | | | | | | |
| EQT363 | T-70022 - Cone Roof Tank (EP-722) | | | | | | | | | | | | | | | | | | |
| EQT364 | T-70023 - Cone Roof Tank (EP-723) | | | | | | | | | | | | | | | | | | |
| EQT365 | T-70024 - Cone Roof Tank (EP-724) | | | | | | | | | | | | | | | | | | |
| EQT366 | T-70025 - Cone Roof Tank (EP-725) | | | | | | | | | | | | | | | | | | |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Refinery – Excel Paralubes
Agency Interest No. 2538
ConocoPhillips Company
Westlake, Calcasieu Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No. | Description | LAC 33:III Chapter | | | | | | | | | | | | | | | | | |
|--------|---|--------------------|---|----|----|----|------|-------|------|------|------|------|------|----|-----|-----|-----|----|-----|
| | | 5▲ | 9 | 11 | 13 | 15 | 2103 | 2104* | 2109 | 2111 | 2113 | 2141 | 2122 | 22 | 29* | 51* | 53* | 56 | 59* |
| EQT367 | T-70026 - Cone Roof Tank (EP-726) | | | | | | 3 | | | | | | | | | | | 1 | |
| EQT368 | T-70029 - Cone Roof Tank (EP-729) | | | | | | | 3 | | | | | | | | | | | 1 |
| EQT369 | T-70030 - Cone Roof Tank (EP-730) | | | | | | | 3 | | | | | | | | | | | 1 |
| EQT370 | T-70031 - Cone Roof Tank (EP-731) | | | | | | 3 | | | | | | | | | | | | 1 |
| EQT371 | T-70032 - Cone Roof Tank (EP-732) | | | | | | | 3 | | | | | | | | | | | 1 |
| EQT373 | T-71001 - Internal Floating Roof Tank (EP-360) | | | | | | 3 | | | | | | | | | | | 1 | |
| EQT374 | T-72001 - Cone Roof Tank (EP-743) | | | | | | | 3 | | | | | | | | | | | 1 |
| EQT378 | TKLOAD - LOHC Truck Loading | | | | | | | | | | | | | | | | | | 1 |
| FUG018 | E-1 - Excel Paralubes Drain, Sumps and Junction Box Fugitives (EP-121) (EP-113) | | | | | | | | | | | | | 1 | | | | | |
| FUG019 | E-2 - Excel Paralubes Process Fugitives (EP-248) | | | | | | | | | | | | | | | | | | |
| FUG020 | Y-6 - Cooling Tower Fugitives (EP-112) | | | | | | | | | | | | | | | | | | |
| RLP074 | 4-5 SRU - No. 4/No. 5 SRU Stack (EP-111) | 1 | | | | | | 1 | | | | | | | | | | | |

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Refinery – Excel Paralubes
Agency Interest No. 2538
ConocoPhillips Company
Westlake, Calcasieu Parish, Louisiana

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Refinery – Excel Paralubes
Agency Interest No. 2538
ConocoPhillips Company
Westlake, Calcasieu Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No. | Description | 40 CFR 60 NSPS | | | | | | | | | | | | 40 CFR 61 | | | | | | | | | | | | 40 CFR | | |
|--------|---|----------------|----|---|----|----|-----|-----|---|---|----|---|---|-----------|-----|-------|-------|----|----|--|--|--|--|--|--|--------|---|---|
| | | A | Db | J | Ka | Kb | GGG | QQQ | A | M | FF | A | F | CC | UUU | DDDDD | GGGGG | 68 | 82 | | | | | | | | | |
| GRP037 | Excel Paralubes | 1 | | | | | | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | 1 | 1 | |
| ARE014 | REMED-E - Excel Paralubes Site Remediation Activities | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT327 | B-76001 - High Pressure Boiler (EP-109) | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| EQT328 | D-66011 - Dome Roof Tank (EP-699) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT330 | FL-76002 - West Flare (EP-110) | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT331 | H-11001 - HDC Hydrogen Heater (EP-101) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| EQT332 | H-11002 - HDC Atmospheric Tower Heater (EP-118) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| EQT333 | H-11003 - HDC Vacuum Tower Heater (EP-119) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| EQT334 | H-12001 - HDW/HDF Reactor Charge Heater (EP-102) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| EQT335 | H-12002 - HDW/HDF Atmospheric Heater (EP-144) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| EQT336 | H-12003 - HDW/HDF Vacuum Tower Heater (EP-103) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| EQT337 | RAILCAR - LOHC Railcar Loading (EP-114) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT338 | SULFURLD - LOHC Sulfur Loading (Rail/Truck) (EP-115) | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| EQT339 | T-66001 - Cone Roof Tank (EP-695) | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| EQT341 | T-66003 - Cone Roof Tank (EP-697) | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| EQT344 | T-70001 - Cone Roof Tank (EP-701) | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Refinery – Excel Paralubes
Agency Interest No. 2538
ConocoPhillips Company
Westlake, Calcasieu Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No. | Description | 40 CFR 60 NSPS | | | | | | | | | | | | 40 CFR 61 | | | | | | | | | | | | 40 CFR | | | |
|---------|-----------------------------------|----------------|---|---|---|---|---|----|---|----|---|----|---|-----------|---|---|---|---|----|----|----|----|----|----|----|--------|----|----|----|
| | | A | D | b | J | K | a | Kb | G | GG | Q | QQ | A | M | F | F | A | F | CC | UU | DD | DD | DD | GG | GG | GG | GG | 68 | 82 |
| EQT345 | T-70002 - Cone Roof Tank (EP-702) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT346 | T-70003 - Cone Roof Tank (EP-703) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT347 | T-70004 - Cone Roof Tank (EP-704) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT348 | T-70005 - Cone Roof Tank (EP-705) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT349 | T-70006 - Cone Roof Tank (EP-706) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT350 | T-70009 - Cone Roof Tank (EP-709) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT351 | T-70010 - Cone Roof Tank (EP-710) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT352 | T-70011 - Cone Roof Tank (EP-711) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT353 | T-70012 - Cone Roof Tank (EP-712) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT354 | T-70013 - Cone Roof Tank (EP-713) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT355 | T-70014 - Cone Roof Tank (EP-714) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQI1356 | T-70015 - Cone Roof Tank (EP-715) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT357 | T-70016 - Cone Roof Tank (EP-716) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT358 | T-70017 - Cone Roof Tank (EP-717) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT359 | T-70018 - Cone Roof Tank (EP-718) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT360 | T-70019 - Cone Roof Tank (EP-719) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT361 | T-70020 - Cone Roof Tank (EP-720) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT362 | T-70021 - Cone Roof Tank (EP-721) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT363 | T-70022 - Cone Roof Tank (EP-722) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT364 | T-70023 - Cone Roof Tank (EP-723) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT365 | T-70024 - Cone Roof Tank (EP-724) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT366 | T-70025 - Cone Roof Tank (EP-725) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT367 | T-70026 - Cone Roof Tank (EP-726) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT368 | T-70029 - Cone Roof Tank (EP-729) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT369 | T-70030 - Cone Roof Tank (EP-730) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Refinery – Excel Paralubes
Agency Interest No. 2538
ConocoPhillips Company
Westlake, Calcasieu Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No. | Description | 40 CFR 60 NSPS | | | | | | 40 CFR 61 | | | | | | 40 CFR 63 NESHPAP | | | | | | 40 CFR | |
|--------|--|----------------|----|---|----------------|----------------|-----------------|-----------------|---|---|-----------------|---|---|-------------------|-----------------|-------------------|-------------------|-------------------|----|--------|--|
| | | A | Db | J | K _a | K _b | G _{GG} | Q _{QQ} | A | M | F _{FF} | A | F | C _C | U _{UU} | D _{DDDD} | G _{GGGG} | G _{GGGG} | 68 | 82 | |
| EQT370 | T-70031 - Cone Roof Tank (EP-731) | | | | | | 3 | | | | | | | | | | | | | | |
| EQT371 | T-70032 - Cone Roof Tank (EP-732) | | | | | | | 3 | | | | | | | | | | | | | |
| EQT373 | T-71001 - Internal Floating Roof Tank (EP-360) | | | | | | | 3 | | | | | | | | | | | | | |
| EQT374 | T-72001 - Cone Roof Tank (EP-743) | | | | | | | | 3 | | | | | | | | | | | | |
| EQT378 | TKLOAD - LOHC Truck Loading (EP-113) | | | | | | | | | | | | | | | | | 1 | | | |
| FUG018 | E-1 - Excel Paralubes Drain, Sumps and Junction Box Fugitives (EP-121) | | | | | | | | | 1 | | | 1 | | | | | | | | |
| FUG019 | E-2 - Excel Paralubes Process Fugitives (EP-248) | | | | | | | | | | .1 | | | | | | | | | | |
| FUG020 | Y-6 - Cooling Tower Fugitives (EP-112) | | | | | | | | | | | | | | | | | | | | |
| RLP074 | 4-5 SRU - No. 4/No. 5 SRU Stack (EP-111) | | | | | | | | | 1 | | | | | | | | 1 | | | |

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Refinery – Excel Paralubes
Agency Interest No. 2538
ConocoPhillips Company
Westlake, Calcasieu Parish, Louisiana

3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Refinery – Excel Paralubes
Agency Interest No. 2538
ConocoPhillips Company
Westlake, Calcasieu Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

| ID No: | Requirement | Notes |
|---------------------------------------|---|--|
| EQT330 | NSPS Subpart A [40 CFR 60.18] | Does not Apply – No NSPS source vents to this flare. |
| EQT339 | Storage of Volatile Organic Compounds [LAC 33:III.2103] | Does not Apply – Vapor pressure < 1.5 psia. |
| EQT341, EQT344 through EQT371, EQT374 | Storage of Volatile Organic Compounds [LAC 33:III.2103] NSPS Subpart Kb [40 CFR 60.110b] | Does not Apply – Vapor pressure < 1.5 psia. Does not Apply – Vapor pressure < 0.5 psia. |
| EQT373 | Storage of Volatile Organic Compounds [LAC 33:III.2103] NSPS Subpart Kb [40 CFR 60.110b] | Does not Apply – Sour water storage. |

The above table provides explanation for both the exemption status and non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

40 CFR PART 70 GENERAL CONDITIONS

emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
 - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

40 CFR PART 70 GENERAL CONDITIONS

3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

40 CFR PART 70 GENERAL CONDITIONS

- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated November 9, 2006, along with supplemental information dated November 30, 2006 and March 5, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
 Activity Number: PER20060043
 Permit Number: 2627-V3
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

| ID | Description | Tank Volume | Max. Operating Rate | Normal Operating Rate | Contents | Operating Time |
|--------|---|-------------|---------------------|-----------------------|----------|-----------------------|
| ARE014 | REMEDIATE - Excel Paralutes Site Remediation Activities | | | | | 8760 hr/yr (All Year) |
| EQT327 | B-76001 - High Pressure Boiler (EP-109) | 200 bbl | 418 MM BTU/hr | 348 MM BTU/hr | | 8760 hr/yr (All Year) |
| EQT328 | D-66011 - Dome Roof Tank (EP-699) | | | | | 8760 hr/yr (All Year) |
| EQT330 | FL-76002 - West Flare (EP-110) | | 229 MM BTU/hr | 129 MM BTU/hr | | 8760 hr/yr (All Year) |
| EQT331 | H-11001 - HDC Hydrogen Heater (EP-101) | | 82.5 MM BTU/hr | | | 8760 hr/yr (All Year) |
| EQT332 | H-11002 - HDC Atmospheric Tower Heater (EP-118) | | 58.1 MM BTU/hr | | | 8760 hr/yr (All Year) |
| EQT333 | H-11003 - HDC Vacuum Tower Heater (EP-119) | | 42.9 MM BTU/hr | | | 8760 hr/yr (All Year) |
| EQT334 | H-12001 - HDW/HDF Reactor Charge Heater (EP-102) | | 38.3 MM BTU/hr | | | 8760 hr/yr (All Year) |
| EQT335 | I-12002 - HDW/HDF Atmospheric Heater (EP-144) | | 35.8 MM BTU/hr | | | 8760 hr/yr (All Year) |
| EQT336 | H-12003 - HDW/HDF Vacuum Tower Heater (EP-103) | | 53.7 MM BTU/hr | | | 8760 hr/yr (All Year) |
| EQT337 | RAILCAR - LÖHC Railcar Loading (EP-114) | | 1100 bbl/hr | 2.84 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT338 | SULFUR/D-LÖHC Sulfur Loading (Rail/Truck) (EP-115) | | | | | 8760 hr/yr (All Year) |
| EQT339 | T-66001 - Cone Roof Tank (EP-695) | 2400 bbl | | 2400 bbl/yr | | 8760 hr/yr (All Year) |
| EQT341 | T-66003 - Cone Roof Tank (EP-697) | 300 bbl | | 1500 bbl/yr | | 8760 hr/yr (All Year) |
| EQT344 | T-70001 - Cone Roof Tank (EP-701) | 400000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT345 | T-70002 - Cone Roof Tank (EP-702) | 180000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT346 | T-70003 - Cone Roof Tank (EP-703) | 150000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT347 | T-70004 - Cone Roof Tank (EP-704) | 80000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT348 | T-70005 - Cone Roof Tank (EP-705) | 80000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT349 | T-70006 - Cone Roof Tank (EP-706) | 80000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT350 | T-70009 - Cone Roof Tank (EP-709) | 20000 bbl | | 4.1 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT351 | T-70010 - Cone Roof Tank (EP-710) | 20000 bbl | | 4.1 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT352 | T-70011 - Cone Roof Tank (EP-711) | 60000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT353 | T-70012 - Cone Roof Tank (EP-712) | 40000 bbl | | 4.1 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT354 | T-70013 - Cone Roof Tank (EP-713) | 30000 bbl | | 4.1 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT355 | T-70014 - Cone Roof Tank (EP-714) | 30000 bbl | | 4.1 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT356 | T-70015 - Cone Roof Tank (EP-715) | 40000 bbl | | 4.1 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT357 | T-70016 - Cone Roof Tank (EP-716) | 40000 bbl | | 4.1 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT358 | T-70017 - Cone Roof Tank (EP-717) | 70000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT359 | T-70018 - Cone Roof Tank (EP-718) | 70000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT360 | T-70019 - Cone Roof Tank (EP-719) | 210000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT361 | T-70020 - Cone Roof Tank (EP-720) | 210000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT362 | T-70021 - Cone Roof Tank (EP-721) | 160000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT363 | T-70022 - Cone Roof Tank (EP-722) | 160000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT364 | T-70023 - Cone Roof Tank (EP-723) | 100000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT365 | T-70024 - Cone Roof Tank (EP-724) | 100000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT366 | T-70025 - Cone Roof Tank (EP-725) | 25000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

| ID | Description | Tank Volume | Max. Operating Rate | Normal Operating Rate | Contents | Operating Time |
|--------|---|-------------|---------------------|-----------------------|-----------------------|-----------------------|
| EQT367 | T-70026 - Cone Roof Tank (EP-726) | 100000 bbl | | 4.1 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT368 | T-70029 - Cone Roof Tank (EP-729) | 100000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT369 | T-70030 - Cone Roof Tank (EP-730) | 100000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT370 | T-70031 - Cone Roof Tank (EP-731) | 100000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT371 | T-70032 - Cone Roof Tank (EP-732) | 100000 bbl | | 61.6 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT373 | T-71001 - Internal Floating Roof Tank (EP-360) | 166000 bbl | | 2.5 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT374 | T-72001 - Cone Roof Tank (EP-743) | 100000 bbl | | 4.1 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT378 | TKLOAD - LOHC Truck Loading (EP-113) | | 1100 bbl/hr | 18.89 MM bbl/yr | | 8760 hr/yr (All Year) |
| EQT379 | CR-88001 - Pulsation Dampener and Suction Line Drains and Vents | | | | 8760 hr/yr (All Year) | |
| EQT380 | CR-88002 - Pulsation Dampener and Suction Line Drains and Vents | | | | 8760 hr/yr (All Year) | |
| EQT381 | D-11008 - Level Bridles and Water Drain | | | | 8760 hr/yr (All Year) | |
| EQT382 | D-11009 - Level Bridles and Water Drain | | | | 8760 hr/yr (All Year) | |
| EQT383 | D-11012 - Level Bridles and Water Drain | | | | 8760 hr/yr (All Year) | |
| EQT384 | D-12002 - Level Bridles | | | | 8760 hr/yr (All Year) | |
| EQT385 | D-12003 - Level Bridles | | | | 8760 hr/yr (All Year) | |
| EQT386 | D-12004 - Level Bridles | | | | 8760 hr/yr (All Year) | |
| EQT387 | D-12005 - Level Bridles | | | | 8760 hr/yr (All Year) | |
| EQT388 | D-12006 - Level Bridles | | | | 8760 hr/yr (All Year) | |
| EQT389 | D-13001 - Level Bridles and Drain | | | | 8760 hr/yr (All Year) | |
| EQT390 | D-13002 - Level Bridles and Drain | | | | 8760 hr/yr (All Year) | |
| EQT391 | D-13007 - Level Bridles | | | | 8760 hr/yr (All Year) | |
| EQT392 | LG-13119 - Level Bridle | | | | 8760 hr/yr (All Year) | |
| EQT393 | LG-13103 - Level Bridle | | | | 8760 hr/yr (All Year) | |
| EQT394 | LG-13104 - Level Bridle | | | | 8760 hr/yr (All Year) | |
| EQT395 | LG-13108 - Level Bridle | | | | 8760 hr/yr (All Year) | |
| EQT396 | LG-13111 - Level Bridle | | | | 8760 hr/yr (All Year) | |
| EQT397 | LG-13114 - Level Bridle | | | | 8760 hr/yr (All Year) | |
| EQT398 | LG-13118 - Level Bridle | | | | 8760 hr/yr (All Year) | |
| EQT399 | D-66001 - Drain | | | | 8760 hr/yr (All Year) | |
| EQT400 | D-66022 - Amine Sump Drum | | | | 8760 hr/yr (All Year) | |
| EQT401 | D-88003 - Drain | | | | 8760 hr/yr (All Year) | |
| EQT402 | D-88005 - Drain | | | | 8760 hr/yr (All Year) | |
| EQT403 | D-88029 - Drain | | | | 8760 hr/yr (All Year) | |
| EQT404 | LG-13112 - Level Bridle | | | | 8760 hr/yr (All Year) | |
| EQT405 | LG-13115 - Level Bridle | | | | 8760 hr/yr (All Year) | |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
 Activity Number: PER20060043
 Permit Number: 2627-V3
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

| ID | Description | Tank Volume | Max. Operating Rate | Normal Operating Rate | Contents | Operating Time |
|--------|---|-------------|---------------------|-----------------------|----------|-----------------------|
| EQT406 | P-71013 - Gland Seal Vent, Pump Casing Vent | | | | | 8760 Hr/yr (All Year) |
| EQT407 | RA-11001 - 1st Reactor Sample Pot Vent | | | | | 8760 Hr/yr (All Year) |
| EQT408 | P-11013 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT409 | P-11014 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT410 | P-11015 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT411 | P-11016 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT412 | P-11005 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT413 | P-11006 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT414 | P-11010 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT415 | P-11009 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT416 | P-11037 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT417 | D-11005 - Level Bridles and Water Drain | | | | | 8760 Hr/yr (All Year) |
| EQT418 | D-11002 - Level Bridles and Water Drain | | | | | 8760 Hr/yr (All Year) |
| EQT419 | D-11006 - Level Bridles and Water Drain | | | | | 8760 Hr/yr (All Year) |
| EQT420 | C-11011 - Suction and Discharge Vent | | | | | 8760 Hr/yr (All Year) |
| EQT421 | P-11011 - Seal Flush | | | | | 8760 Hr/yr (All Year) |
| EQT422 | AI-11104 - Analyzer Building Vent | | | | | 8760 Hr/yr (All Year) |
| EQT423 | D-11015 - Vent | | | | | 8760 Hr/yr (All Year) |
| EQT424 | D-11003 - Vent | | | | | 8760 Hr/yr (All Year) |
| EQT425 | D-11006 - Vent | | | | | 8760 Hr/yr (All Year) |
| EQT426 | XCV-11124 - Depressure Vent | | | | | 8760 Hr/yr (All Year) |
| EQT427 | XCV-11125 - Depressure Vent | | | | | 8760 Hr/yr (All Year) |
| EQT428 | XCV-11126 - Depressure Vent | | | | | 8760 Hr/yr (All Year) |
| EQT429 | D-12005 - Overhead Vent | | | | | 8760 Hr/yr (All Year) |
| EQT430 | D-12007 - Overhead Vent | | | | | 8760 Hr/yr (All Year) |
| EQT431 | HCV-12121 - Vent | | | | | 8760 Hr/yr (All Year) |
| EQT432 | P-12003 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT433 | P-12004 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT434 | P-12022 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT435 | P-12021 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT436 | P-12024 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT437 | P-12023 - Seal Vent | | | | | 8760 Hr/yr (All Year) |
| EQT438 | P-12001 - Pump Vent | | | | | 8760 Hr/yr (All Year) |
| EQT439 | D-13016 - Drains for Shutdown | | | | | 8760 Hr/yr (All Year) |
| EQT440 | D-13006 - Drains for Shutdown | | | | | 8760 Hr/yr (All Year) |
| EQT441 | X-13008 - Drains for Shutdown | | | | | 8760 Hr/yr (All Year) |
| EQT442 | X-13006 - Drains for Shutdown | | | | | 8760 Hr/yr (All Year) |

INVENTORIES
AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20060043
Permit Number: 2627-V3
Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

| ID | Description | Tank Volume | Max. Operating Rate | Normal Operating Rate | Contents | Operating Time |
|--------|---|-------------|---------------------|-----------------------|----------|-----------------------|
| EQT443 | W-13001 - Drains for Shutdown | | | | | 8760 hr/yr (All Year) |
| EQT444 | W-13002 - Drains for Shutdown | | | | | 8760 hr/yr (All Year) |
| EQT445 | W-13005 - Drains for Shutdown | | | | | 8760 hr/yr (All Year) |
| EQT446 | X-13016 - Drains for Shutdown | | | | | 8760 hr/yr (All Year) |
| EQT447 | PCV-13101 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT448 | HCV-13113 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT449 | PCV-13104 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT450 | PCV-13107 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT451 | HCV-13104 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT452 | P-13011 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT453 | P-13012 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT454 | P-13009 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT455 | P-13010 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT456 | P-13013 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT457 | P-13014 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT458 | P-13002 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT459 | P-13001 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT460 | P-13003 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT461 | P-13004 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT462 | P-13005 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT463 | P-13006 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT464 | P-13015 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT465 | P-13016 - Discharge & Seal Vent | | | | | 8760 hr/yr (All Year) |
| EQT466 | P-13019 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT467 | P-13020 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT468 | P-13021 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT469 | C-13001A - Suction Drains, Case Drain, Primary Seal, Primary Seal Drive End | | | | | 8760 hr/yr (All Year) |
| EQT470 | C-13001B - Suction Drains, Case Drain, Primary Seal, Primary Seal Drive End | | | | | 8760 hr/yr (All Year) |
| EQT471 | C-13002 - Suction Drains, Case Drain, Primary Seal, Primary Seal Drive End | | | | | 8760 hr/yr (All Year) |
| EQT472 | P-64001 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT473 | P-64002 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT474 | P-64052 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT475 | P-64053 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT476 | D-64001 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT477 | D-64000 - Drain | | | | | 8760 hr/yr (All Year) |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PIER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

| ID | Description | Tank Volume | Max. Operating Rate | Normal Operating Rate | Contents | Operating Time |
|--------|-----------------------------------|-------------|---------------------|-----------------------|----------|-----------------------|
| EQT478 | W-64052 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT479 | P-65001 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT480 | P-65002 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT481 | P-65052 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT482 | P-65053 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT483 | D-65001 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT484 | D-65000 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT485 | W-65052 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT486 | P-71020 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT487 | P-71021 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT488 | P-71009 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT489 | P-71010 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT490 | P-71022 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT491 | P-71023 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT492 | P-71018 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT493 | P-71019 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT494 | P-71012 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT495 | D-71001 - Vent | | | | | 8760 hr/yr (All Year) |
| EQT496 | AE-76101 - Analyzer Building Vent | | | | | 8760 hr/yr (All Year) |
| EQT497 | D-38002 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT498 | D-38001 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT499 | D-38011 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT500 | D-38012 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT501 | D-38010 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT502 | D-38009 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT503 | D-38015 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT504 | D-38016 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT505 | D-38014 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT506 | D-38013 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT507 | D-38019 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT508 | D-38020 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT509 | D-38018 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT510 | D-38017 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT511 | D-38023 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT512 | D-38024 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT513 | D-38022 - Drain | | | | | 8760 hr/yr (All Year) |
| EQT514 | D-38021 - Drain | | | | | 8760 hr/yr (All Year) |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

| ID | Description | Tank Volume | Max. Operating Rate | Normal Operating Rate | Contents | Operating Time |
|--------|--|-------------------|---------------------|-----------------------|-------------------|-----------------------|
| EQT515 | PU-88002 - Drain | | | | | 8760 Hr/yr (All Year) |
| EQT516 | UG-13005 - Level Bridle | | | | | 8760 Hr/yr (All Year) |
| EQT517 | LG-13101 - Level Bridle | | | | | 8760 Hr/yr (All Year) |
| EQT518 | LG-13102 - Level Bridle | | | | | 8760 Hr/yr (All Year) |
| EQT520 | W-13003 - Drain for Shutdown | | | | | 8760 Hr/yr (All Year) |
| EQT521 | P-66005 - Vent | | | | | 8760 Hr/yr (All Year) |
| EQT522 | P-66006 - Vent | | | | | 8760 Hr/yr (All Year) |
| EQT523 | P-66022 - Vent | | | | | 8760 Hr/yr (All Year) |
| EQT524 | W-66001 - Vent | | | | | 8760 Hr/yr (All Year) |
| EQT525 | D-88029 - Packing Vent | | | | | 8760 Hr/yr (All Year) |
| FUG018 | E-1 - Excel Paralubes Drain, Sumps and Junction Box Fugitives (EP-121) | | | | | 8760 Hr/yr (All Year) |
| FUG019 | E-2 - Excel Paralubes Process Fugitives (EP-248) | | | | | 8760 Hr/yr (All Year) |
| FUG020 | Y-6 - Cooling Tower Fugitives (EP-112) | | | | | 8760 Hr/yr (All Year) |
| RLP074 | 4-5 SRU - No. 4/No. 5 SRU Stack (EP-111) | 481 long tons/day | 40000 gallons/min | 40000 gallons/min | 360 long tons/day | 8760 Hr/yr (All Year) |

Subject Item Groups:

| ID | Description | Included Components (from Above) |
|--------|---|---|
| GRP034 | DSL/CAP - Excel Diesel & Heavier Tank Cap | EQT350 T-70009 - Cone Roof Tank (EP-709) |
| GRP034 | DSL/CAP - Excel Diesel & Heavier Tank Cap | EQT351 T-70010 - Cone Roof Tank (EP-710) |
| GRP034 | DSL/CAP - Excel Diesel & Heavier Tank Cap | EQT353 T-70012 - Cone Roof Tank (EP-712) |
| GRP034 | DSL/CAP - Excel Diesel & Heavier Tank Cap | EQT354 T-70013 - Cone Roof Tank (EP-713) |
| GRP034 | DSL/CAP - Excel Diesel & Heavier Tank Cap | EQT355 T-70014 - Cone Roof Tank (EP-714) |
| GRP034 | DSL/CAP - Excel Diesel & Heavier Tank Cap | EQT356 T-70015 - Cone Roof Tank (EP-715) |
| GRP034 | DSL/CAP - Excel Diesel & Heavier Tank Cap | EQT357 T-70016 - Cone Roof Tank (EP-716) |
| GRP034 | DSL/CAP - Excel Diesel & Heavier Tank Cap | EQT367 T-70026 - Cone Roof Tank (EP-726) |
| GRP034 | DSL/CAP - Excel Diesel & Heavier Tank Cap | EQT374 T-72001 - Cone Roof Tank (EP-743) |
| GRP035 | HEATCAP - Excel Heater Cap | EQT331 H-11001 - HDG Hydrogen Heater (EP-101) |
| GRP035 | HEATCAP - Excel Heater Cap | EQT332 H-11002 - HDG Atmospheric Tower Heater (EP-118) |
| GRP035 | HEATCAP - Excel Heater Cap | EQT333 H-11003 - HDG Vacuum Tower Heater (EP-119) |
| GRP035 | HEATCAP - Excel Heater Cap | EQT334 H-12001 - HDW/HDF Reactor Charge Heater (EP-102) |
| GRP035 | HEATCAP - Excel Heater Cap | EQT335 H-12002 - HDW/HDF Atmospheric Heater (EP-144) |
| GRP035 | HEATCAP - Excel Heater Cap | EQT336 H-12003 - HDW/HDF Vacuum Tower Heater (EP-103) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT344 T-70001 - Cone Roof Tank (EP-701) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT345 T-70002 - Cone Roof Tank (EP-702) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT346 T-70003 - Cone Roof Tank (EP-703) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT347 T-70004 - Cone Roof Tank (EP-704) |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

| ID | Description | Included Components (from Above) |
|--------|--|---|
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT348 T-70005 - Cone Roof Tank (EP-705) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT349 T-70006 - Cone Roof Tank (EP-706) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT352 T-70011 - Cone Roof Tank (EP-711) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT358 T-70017 - Cone Roof Tank (EP-717) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT359 T-70018 - Cone Roof Tank (EP-718) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT360 T-70019 - Cone Roof Tank (EP-719) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT361 T-70020 - Cone Roof Tank (EP-720) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT362 T-70021 - Cone Roof Tank (EP-721) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT363 T-70022 - Cone Roof Tank (EP-722) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT364 T-70023 - Cone Roof Tank (EP-723) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT365 T-70024 - Cone Roof Tank (EP-724) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT366 T-70025 - Cone Roof Tank (EP-725) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT368 T-70029 - Cone Roof Tank (EP-729) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT369 T-70030 - Cone Roof Tank (EP-730) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT370 T-70031 - Cone Roof Tank (EP-731) |
| GRP036 | LOCAP - Excel Lube Oil Tank Cap (EP-138) | EQT371 T-70032 - Cone Roof Tank (EP-732) |
| GRP037 | Excel Paralubes | ARE14 REMED-E - Excel Paralubes Site Remediation Activities |
| GRP037 | Excel Paralubes | EQT327 B-76001 - High Pressure Boiler (EP-109) |
| GRP037 | Excel Paralubes | EQT328 D-66011 - Dame Roof Tank (EP-699) |
| GRP037 | Excel Paralubes | EQT330 FL-76002 - West Flare (EP-110) |
| GRP037 | Excel Paralubes | EQT331 H-11001 - HDC Hydrogen Heater (EP-101) |
| GRP037 | Excel Paralubes | EQT332 H-11002 - HDC Atmospheric Tower Heater (EP-118) |
| GRP037 | Excel Paralubes | EQT333 H-11003 - HDC Vacuum Tower Heater (EP-119) |
| GRP037 | Excel Paralubes | EQT334 H-12001 - HDW/HDF Reactor Charge Heater (EP-102) |
| GRP037 | Excel Paralubes | EQT335 H-12002 - HDW/HDF Atmospheric Heater (EP-144) |
| GRP037 | Excel Paralubes | EQT336 H-12003 - HDW/HDF Vacuum Tower Heater (EP-103) |
| GRP037 | Excel Paralubes | EQT337 RAILCAR - LOHC Railcar Loading (EP-114) |
| GRP037 | Excel Paralubes | EQT338 SULFURLD - LOHC Sulfur Loading (Rail/Truck) (EP-115) |
| GRP037 | Excel Paralubes | EQT339 T-66001 - Cone Roof Tank (EP-695) |
| GRP037 | Excel Paralubes | EQT340 T-66003 - Cone Roof Tank (EP-697) |
| GRP037 | Excel Paralubes | EQT341 T-66004 - Cone Roof Tank (EP-704) |
| GRP037 | Excel Paralubes | EQT342 T-70001 - Cone Roof Tank (EP-701) |
| GRP037 | Excel Paralubes | EQT345 T-70002 - Cone Roof Tank (EP-702) |
| GRP037 | Excel Paralubes | EQT346 T-70003 - Cone Roof Tank (EP-703) |
| GRP037 | Excel Paralubes | EQT347 T-70004 - Cone Roof Tank (EP-704) |
| GRP037 | Excel Paralubes | EQT348 T-70005 - Cone Roof Tank (EP-705) |
| GRP037 | Excel Paralubes | EQT349 T-70006 - Cone Roof Tank (EP-706) |
| GRP037 | Excel Paralubes | EQT350 T-70009 - Cone Roof Tank (EP-709) |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

| ID | Description | Included Components (from Above) |
|--------|-----------------|--|
| GRP037 | Excel Paralubes | EQT351 T-70010 - Cone Roof Tank (EP-710) |
| GRP037 | Excel Paralubes | EQT352 T-70011 - Cone Roof Tank (EP-711) |
| GRP037 | Excel Paralubes | EQT353 T-70012 - Cone Roof Tank (EP-712) |
| GRP037 | Excel Paralubes | EQT354 T-70013 - Cone Roof Tank (EP-713) |
| GRP037 | Excel Paralubes | EQT355 T-70014 - Cone Roof Tank (EP-714) |
| GRP037 | Excel Paralubes | EQT356 T-70015 - Cone Roof Tank (EP-715) |
| GRP037 | Excel Paralubes | EQT357 T-70016 - Cone Roof Tank (EP-716) |
| GRP037 | Excel Paralubes | EQT358 T-70017 - Cone Roof Tank (EP-717) |
| GRP037 | Excel Paralubes | EQT359 T-70018 - Cone Roof Tank (EP-718) |
| GRP037 | Excel Paralubes | EQT360 T-70019 - Cone Roof Tank (EP-719) |
| GRP037 | Excel Paralubes | EQT361 T-70020 - Cone Roof Tank (EP-720) |
| GRP037 | Excel Paralubes | EQT362 T-70021 - Cone Roof Tank (EP-721) |
| GRP037 | Excel Paralubes | EQT363 T-70022 - Cone Roof Tank (EP-722) |
| GRP037 | Excel Paralubes | EQT364 T-70023 - Cone Roof Tank (EP-723) |
| GRP037 | Excel Paralubes | EQT365 T-70024 - Cone Roof Tank (EP-724) |
| GRP037 | Excel Paralubes | EQT366 T-70025 - Cone Roof Tank (EP-725) |
| GRP037 | Excel Paralubes | EQT367 T-70026 - Cone Roof Tank (EP-726) |
| GRP037 | Excel Paralubes | EQT368 T-70029 - Cone Roof Tank (EP-729) |
| GRP037 | Excel Paralubes | EQT369 T-70030 - Cone Roof Tank (EP-730) |
| GRP037 | Excel Paralubes | EQT370 T-70031 - Cone Roof Tank (EP-731) |
| GRP037 | Excel Paralubes | EQT371 T-70032 - Cone Roof Tank (EP-732) |
| GRP037 | Excel Paralubes | EQT373 T-71001 - Internal Floating Roof Tank (EP-360) |
| GRP037 | Excel Paralubes | EQT374 T-72001 - Cone Roof Tank (EP-743) |
| GRP037 | Excel Paralubes | EQT378 TKLOAD - LOHC Truck Loading (EP-113) |
| GRP037 | Excel Paralubes | EQT379 CR-88001 - Pulsation Dampener and Suction Line Drains and Vents |
| GRP037 | Excel Paralubes | EQT380 CR-88002 - Pulsation Dampener and Suction Line Drains and Vents |
| GRP037 | Excel Paralubes | EQT381 D-11008 - Level Bridles and Water Drain |
| GRP037 | Excel Paralubes | EQT382 D-11009 - Level Bridles and Water Drain |
| GRP037 | Excel Paralubes | EQT383 D-11012 - Level Bridles and Water Drain |
| GRP037 | Excel Paralubes | EQT384 D-12002 - Level Bridles |
| GRP037 | Excel Paralubes | EQT385 D-12003 - Level Bridles |
| GRP037 | Excel Paralubes | EQT386 D-12004 - Level Bridles |
| GRP037 | Excel Paralubes | EQT387 D-12005 - Level Bridles |
| GRP037 | Excel Paralubes | EQT388 D-12006 - Level Bridles |
| GRP037 | Excel Paralubes | EQT389 D-13001 - Level Bridles and Drain |
| GRP037 | Excel Paralubes | EQT390 D-13002 - Level Bridles and Drain |
| GRP037 | Excel Paralubes | EQT391 D-13007 - Level Bridles |

INVENTORIES

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Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

| ID | Description | Included Components (from Above) |
|--------|-----------------|--|
| GRP037 | Excel Paralubes | EQT392 LG-13119 - Level Bridle |
| GRP037 | Excel Paralubes | EQT393 LG-13103 - Level Bridle |
| GRP037 | Excel Paralubes | EQT394 LG-13104 - Level Bridle |
| GRP037 | Excel Paralubes | EQT395 LG-13108 - Level Bridle |
| GRP037 | Excel Paralubes | EQT396 LG-13111 - Level Bridle |
| GRP037 | Excel Paralubes | EQT397 LG-13114 - Level Bridle |
| GRP037 | Excel Paralubes | EQT398 LG-13118 - Level Bridle |
| GRP037 | Excel Paralubes | EQT399 D-66001 - Drain |
| GRP037 | Excel Paralubes | EQT400 D-66022 - Armine Sump Drum |
| GRP037 | Excel Paralubes | EQT401 D-88003 - Drain |
| GRP037 | Excel Paralubes | EQT402 D-88005 - Drain |
| GRP037 | Excel Paralubes | EQT403 D-88029 - Drain |
| GRP037 | Excel Paralubes | EQT404 LG-13112 - Level Bridle |
| GRP037 | Excel Paralubes | EQT405 LG-13115 - Level Bridle |
| GRP037 | Excel Paralubes | EQT406 P-71013 - Gland Seal Vent, Pump Casing Vent |
| GRP037 | Excel Paralubes | EQT407 RA-11001 - 1st Reactor Sample Pot Vent |
| GRP037 | Excel Paralubes | EQT408 P-11013 - Seal Vent |
| GRP037 | Excel Paralubes | EQT409 P-11014 - Seal Vent |
| GRP037 | Excel Paralubes | EQT410 P-11015 - Seal Vent |
| GRP037 | Excel Paralubes | EQT411 P-11016 - Seal Vent |
| GRP037 | Excel Paralubes | EQT412 P-11005 - Seal Vent |
| GRP037 | Excel Paralubes | EQT413 P-11006 - Seal Vent |
| GRP037 | Excel Paralubes | EQT414 P-11010 - Seal Vent |
| GRP037 | Excel Paralubes | EQT415 P-11009 - Seal Vent |
| GRP037 | Excel Paralubes | EQT416 P-11037 - Seal Vent |
| GRP037 | Excel Paralubes | EQT417 D-11005 - Level Bridles and Water Drain |
| GRP037 | Excel Paralubes | EQT418 D-11002 - Level Bridles and Water Drain |
| GRP037 | Excel Paralubes | EQT419 D-11006 - Level Bridles and Water Drain |
| GRP037 | Excel Paralubes | EQT420 C-11011 - Suction and Discharge Vent |
| GRP037 | Excel Paralubes | EQT421 P-11011 - Seal Flush |
| GRP037 | Excel Paralubes | EQT422 AI-11104 - Analyzer Building Vent |
| GRP037 | Excel Paralubes | EQT423 D-11015 - Vent |
| GRP037 | Excel Paralubes | EQT424 D-11003 - Vent |
| GRP037 | Excel Paralubes | EQT425 D-11006 - Vent |
| GRP037 | Excel Paralubes | EQT426 XCV-11124 - Depresssure Vent |
| GRP037 | Excel Paralubes | EQT427 XCV-11125 - Depresssure Vent |
| GRP037 | Excel Paralubes | EQT428 XCV-11126 - Depresssure Vent |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

| ID | Description | Included Components (from Above) |
|--------|-----------------|--|
| GRP037 | Excel Paralubes | EQT429 D-12005 - Overhead Vent |
| GRP037 | Excel Paralubes | EQT430 D-12007 - Overhead Vent |
| GRP037 | Excel Paralubes | EQT431 HCV-12121 - Vent |
| GRP037 | Excel Paralubes | EQT432 P-12003 - Seal Vent |
| GRP037 | Excel Paralubes | EQT433 P-12004 - Seal Vent |
| GRP037 | Excel Paralubes | EQT434 P-12022 - Seal Vent |
| GRP037 | Excel Paralubes | EQT435 P-12021 - Seal Vent |
| GRP037 | Excel Paralubes | EQT436 P-12024 - Seal Vent |
| GRP037 | Excel Paralubes | EQT437 P-12023 - Seal Vent |
| GRP037 | Excel Paralubes | EQT438 P-12001 - Pump Vent |
| GRP037 | Excel Paralubes | EQT439 D-13016 - Drains for Shutdown |
| GRP037 | Excel Paralubes | EQT440 D-13006 - Drains for Shutdown |
| GRP037 | Excel Paralubes | EQT441 X-13008 - Drains for Shutdown |
| GRP037 | Excel Paralubes | EQT442 X-13006 - Drains for Shutdown |
| GRP037 | Excel Paralubes | EQT443 W-13001 - Drains for Shutdown |
| GRP037 | Excel Paralubes | EQT444 W-13002 - Drains for Shutdown |
| GRP037 | Excel Paralubes | EQT445 W-13005 - Drains for Shutdown |
| GRP037 | Excel Paralubes | EQT446 X-13016 - Drains for Shutdown |
| GRP037 | Excel Paralubes | EQT447 PCV-13101 - Vent |
| GRP037 | Excel Paralubes | EQT448 HCV-13113 - Vent |
| GRP037 | Excel Paralubes | EQT449 PCV-13104 - Vent |
| GRP037 | Excel Paralubes | EQT450 PCV-13107 - Vent |
| GRP037 | Excel Paralubes | EQT451 HCV-13104 - Vent |
| GRP037 | Excel Paralubes | EQT452 P-13011 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT453 P-13012 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT454 P-13009 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT455 P-13010 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT456 P-13013 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT457 P-13014 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT458 P-13002 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT459 P-13001 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT460 P-13003 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT461 P-13004 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT462 P-13005 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT463 P-13006 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT464 P-13015 - Discharge & Seal Vent |
| GRP037 | Excel Paralubes | EQT465 P-13016 - Discharge & Seal Vent |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

| ID | Description | Included Components (from Above) |
|--------|-----------------|--|
| GRP037 | Excel Paralubes | EQT466 P-13019 - Vent |
| GRP037 | Excel Paralubes | EQT467 P-13020 - Vent |
| GRP037 | Excel Paralubes | EQT468 P-13021 - Vent |
| GRP037 | Excel Paralubes | EQT469 C-13001A - Suction Drains, Case Drain, Primary Seal, Primary Seal Drive End |
| GRP037 | Excel Paralubes | EQT470 C-13001B - Suction Drains, Case Drain, Primary Seal, Primary Seal Drive End |
| GRP037 | Excel Paralubes | EQT471 C-13002 - Suction Drains, Case Drain, Primary Seal, Primary Seal Drive End |
| GRP037 | Excel Paralubes | EQT472 P-64001 - Vent |
| GRP037 | Excel Paralubes | EQT473 P-64002 - Vent |
| GRP037 | Excel Paralubes | EQT474 P-64002 - Vent |
| GRP037 | Excel Paralubes | EQT475 P-64053 - Vent |
| GRP037 | Excel Paralubes | EQT476 D-64001 - Drain |
| GRP037 | Excel Paralubes | EQT477 D-64000 - Drain |
| GRP037 | Excel Paralubes | EQT478 W-64052 - Drain |
| GRP037 | Excel Paralubes | EQT479 P-65001 - Vent |
| GRP037 | Excel Paralubes | EQT480 P-65002 - Vent |
| GRP037 | Excel Paralubes | EQT481 P-65052 - Vent |
| GRP037 | Excel Paralubes | EQT482 P-65053 - Vent |
| GRP037 | Excel Paralubes | EQT483 D-65001 - Drain |
| GRP037 | Excel Paralubes | EQT484 D-65000 - Drain |
| GRP037 | Excel Paralubes | EQT485 W-65052 - Drain |
| GRP037 | Excel Paralubes | EQT486 P-71020 - Vent |
| GRP037 | Excel Paralubes | EQT487 P-71021 - Vent |
| GRP037 | Excel Paralubes | EQT488 P-71009 - Vent |
| GRP037 | Excel Paralubes | EQT489 P-71010 - Vent |
| GRP037 | Excel Paralubes | EQT490 P-71022 - Vent |
| GRP037 | Excel Paralubes | EQT491 P-71023 - Vent |
| GRP037 | Excel Paralubes | EQT492 P-71018 - Vent |
| GRP037 | Excel Paralubes | EQT493 P-71019 - Vent |
| GRP037 | Excel Paralubes | EQT494 P-71012 - Vent |
| GRP037 | Excel Paralubes | EQT495 D-71001 - Vent |
| GRP037 | Excel Paralubes | EQT496 AE-76101 - Analyzer Building Vent |
| GRP037 | Excel Paralubes | EQT497 D-88002 - Drain |
| GRP037 | Excel Paralubes | EQT498 D-88001 - Drain |
| GRP037 | Excel Paralubes | EQT499 D-88011 - Drain |
| GRP037 | Excel Paralubes | EQT500 D-88012 - Drain |
| GRP037 | Excel Paralubes | EQT501 D-88010 - Drain |
| GRP037 | Excel Paralubes | EQT502 D-88009 - Drain |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co -Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

| ID | Description | Included Components (from Above) |
|--------|-----------------|--|
| GRP037 | Excel Paralubes | EQT503 D-88015 - Drain |
| GRP037 | Excel Paralubes | EQT504 D-88016 - Drain |
| GRP037 | Excel Paralubes | EQT505 D-88014 - Drain |
| GRP037 | Excel Paralubes | EQT506 D-88013 - Drain |
| GRP037 | Excel Paralubes | EQT507 D-88019 - Drain |
| GRP037 | Excel Paralubes | EQT508 D-88020 - Drain |
| GRP037 | Excel Paralubes | EQT509 D-88018 - Drain |
| GRP037 | Excel Paralubes | EQT510 D-88017 - Drain |
| GRP037 | Excel Paralubes | EQT511 D-88023 - Drain |
| GRP037 | Excel Paralubes | EQT512 D-88024 - Drain |
| GRP037 | Excel Paralubes | EQT513 D-88022 - Drain |
| GRP037 | Excel Paralubes | EQT514 D-88021 - Drain |
| GRP037 | Excel Paralubes | EQT515 PU-88002 - Drain |
| GRP037 | Excel Paralubes | EQT516 LG-13005 - Level Bridle |
| GRP037 | Excel Paralubes | EQT517 LG-13101 - Level Bridle |
| GRP037 | Excel Paralubes | EQT518 LG-13102 - Level Bridle |
| GRP037 | Excel Paralubes | EQT520 W-13003 - Drain for Shutdown |
| GRP037 | Excel Paralubes | EQT521 P-66005 - Vent |
| GRP037 | Excel Paralubes | EQT522 P-66006 - Vent |
| GRP037 | Excel Paralubes | EQT523 P-66022 - Vent |
| GRP037 | Excel Paralubes | EQT524 W-66001 - Vent |
| GRP037 | Excel Paralubes | EQT525 D-88029 - Packing Vent |
| GRP037 | Excel Paralubes | FUG18 E-1 - Excel Paralubes Drain, Sumps and Junction Box Fugitives (EP-121) |
| GRP037 | Excel Paralubes | FUG19 E-2 - Excel Paralubes Process Fugitives (EP-248) |
| GRP037 | Excel Paralubes | FUG20 Y-6 - Cooling Tower Fugitives (EP-112) |
| GRP037 | Excel Paralubes | GRP34 DSLCAP - Excel Diesel & Heavier Tank Cap |
| GRP037 | Excel Paralubes | GRP35 HEATCAP - Excel Heater Cap |
| GRP037 | Excel Paralubes | GRP36 LOCAP - Excel Lube Oil Tank Cap (EP-138) |
| GRP037 | Excel Paralubes | RLP74 4-5 SRU - No. 4/No. 5 SRU Stack (EP-111) |

Relationships:

| Subject Item | Relationship | Subject Item |
|---------------------------------------|-------------------------|--------------------------------------|
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT439 D-13016 - Drains for Shutdown |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT440 D-13006 - Drains for Shutdown |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT441 X-13008 - Drains for Shutdown |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT442 X-13006 - Drains for Shutdown |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT434 P-12022 - Seal Vent |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Relationships:

| Subject Item | Relationship | Subject Item |
|---------------------------------------|-------------------------|---|
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT435 P-12021 - Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT436 P-12024 - Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT437 P-12023 - Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT438 P-12061 - Pump Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT443 W-13001 - Drains for Shutdown |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT464 P-13015 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT520 W-13003 - Drain for Shutdown |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT521 P-66005 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT522 P-66006 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT523 P-66022 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT524 W-66001 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT525 D-88029 - Packing Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT379 CR-88001 - Pulseation Dampener and Suction Line Drains and Vents |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT380 CR-88002 - Pulseation Dampener and Suction Line Drains and Vents |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT381 D-11008 - Level Bridles and Water Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT382 D-11009 - Level Bridles and Water Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT383 D-11012 - Level Bridles and Water Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT384 D-12002 - Level Bridles |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT385 D-12003 - Level Bridles |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT386 D-12004 - Level Bridles |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT387 D-12005 - Level Bridles |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT388 D-12006 - Level Bridles |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT389 D-13001 - Level Bridles and Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT390 D-13002 - Level Bridles and Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT391 D-13007 - Level Bridles |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT392 LG-13119 - Level Bridle |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT393 LG-13103 - Level Bridle |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT394 LG-13104 - Level Bridle |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT395 LG-13108 - Level Bridle |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT396 LG-13111 - Level Bridle |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT397 LG-13114 - Level Bridle |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT398 LG-13118 - Level Bridle |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT399 D-66001 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT400 D-66022 - Amine Sump Drum |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT401 D-88003 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT402 D-88005 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT403 D-88029 - Drain |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Relationships:

| Relationships: | Subject Item | Relationship | Subject Item |
|---------------------------------------|-------------------------|--|--------------|
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT404 LG-13112 - Level Bridle | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT405 LG-13115 - Level Bridle | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT406 P-71013 - Gland Seal Vent, Pump Casing Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT407 RA-11001 - 1st Reactor Sample Pot Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT408 P-11013 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT409 P-11014 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT410 P-11015 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT411 P-11016 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT412 P-11005 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT413 P-11006 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT414 P-11010 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT415 P-11009 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT416 P-11037 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT417 D-11005 - Level Bridles and Water Drain | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT418 D-11002 - Level Bridles and Water Drain | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT419 D-11006 - Level Bridles and Water Drain | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT420 C-11011 - Suction and Discharge Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT422 A1-1104 - Analyzer Building Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT423 D-11015 - Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT424 D-11003 - Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT425 D-11006 - Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT426 XCV-11124 - Depressure Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT427 XCV-11125 - Depressure Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT428 XCV-11126 - Depressure Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT429 D-12005 - Overhead Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT430 D-12007 - Overhead Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT431 HCV-12121 - Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT432 P-12003 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT433 P-12004 - Seal Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT444 W-13002 - Drains for Shutdown | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT445 W-13005 - Drains for Shutdown | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT446 X-13016 - Drains for Shutdown | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT447 PCV-13101 - Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT448 HCV-13113 - Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT449 PCV-13104 - Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT450 PCV-13107 - Vent | |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT451 HCV-13104 - Vent | |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
 Activity Number: PER20060043
 Permit Number: 2627-V3
 Air - Title V Regular Permit Minor Mod

Relationships:

| Subject Item | Relationship | Subject Item |
|---------------------------------------|-------------------------|--|
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT452 P-13011 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT453 P-13012 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT454 P-13009 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT455 P-13010 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT456 P-13013 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT457 P-13014 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT458 P-13002 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT459 P-13001 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT460 P-13003 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT461 P-13004 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT462 P-13005 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT463 P-13006 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT465 P-13016 - Discharge & Seal Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT466 P-13019 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT467 P-13020 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT468 P-13021 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT469 C-13001A - Suction Drains, Case Drain, Primary Seal Drive End |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT470 C-13001B - Suction Drains, Case Drain, Primary Seal Drive End |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT471 C-13002 - Suction Drains, Case Drain, Primary Seal Drive End |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT472 P-64001 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT473 P-64002 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT474 P-64052 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT475 P-64053 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT476 D-64001 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT487 P-71021 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT477 D-64000 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT478 W-64052 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT479 P-65001 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT480 P-65002 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT481 P-65052 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT482 P-65053 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT483 D-65001 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT484 D-65000 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT485 W-65052 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT486 P-71020 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT488 P-71009 - Vent |

INVENTORIES
AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20060043
Permit Number: 2627-V3
Air - Title V Regular Permit Minor Mod

Relationships:

| Subject Item | Relationship | Subject Item |
|---------------------------------------|-------------------------|--|
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT489 P-71010 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT490 P-71022 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT491 P-71023 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT492 P-71018 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT493 P-71019 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT494 P-71012 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT495 D-71001 - Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT496 AE-76101 - Analyzer Building Vent |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT497 D-88002 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT498 D-88001 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT499 D-88011 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT500 D-88012 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT501 D-88010 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT502 D-88009 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT503 D-88015 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT504 D-88016 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT505 D-88014 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT506 D-88013 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT507 D-88019 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT508 D-88020 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT509 D-88018 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT510 D-88017 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT511 D-88023 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT512 D-88024 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT513 D-88022 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT514 D-88021 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT515 PU-88002 - Drain |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT516 LG-13005 - Level Bridle |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT517 LG-13101 - Level Bridle |
| EQT330 FL-76002 - West Flare (EP-110) | Controls emissions from | EQT518 LG-13102 - Level Bridle |

Stack Information:

| ID | Velocity (ft/sec) | Flow Rate (cubic ft/min-actual) | Diameter (feet) | Discharge Area (square feet) | Height (feet) | Temperature (°F) |
|--|----------------------|------------------------------------|--------------------|---------------------------------|------------------|---------------------|
| EQT327 B-76001 - High Pressure Boiler (EP-109) | 128.65 | 203942 | 6 | | 150 | 325 |
| EQT330 FL-75002 - West Flare (EP-110) | 15.16 | 14487 | 4.5 | | 380 | 1832 |
| EQT331 H-11001 - HDC Hydrogen Heater (EP-101) | 21.83 | 24448 | 4.88 | | 161.3 | 461 |
| EQT332 H-11002 - HDC Atmospheric Tower Heater (EP-118) | 23.34 | 17970 | 4.04 | | 120 | 462 |

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

Stack Information:

| ID | | Velocity (ft/sec) | Flow Rate (cubic ft/min-actual) | Diameter (feet) | Discharge Area (square feet) | Height (feet) | Temperature (°F) |
|--------|--|----------------------|------------------------------------|--------------------|---------------------------------|------------------|---------------------|
| EQT333 | H-11003 - HDG Vacuum Tower Heater (EP-119) | 21.22 | 11959 | 3.46 | | 120 | 423 |
| EQT334 | H-12001 - HDW/HDF Reactor Charge Heater (EP-102) | 24.33 | 11798 | 3.21 | | 120 | 473 |
| EQT335 | H-12002 - HDW/HDF Atmospheric Heater (EP-144) | 24.33 | 11798 | 3.21 | | 120 | 473 |
| EQT336 | H-12003 - HDW/HDF Vacuum Tower Heater (EP-103) | 22.69 | 16053 | 3.88 | | 120 | 438 |
| FUG020 | Y-6 - Cooling Tower Fugitives (EP-112) | 27.8 | | 31.6 | | 62 | 96.7 |
| RLP074 | 4-5 SRU - No. 4/No. 5 SRU Stack (EP-111) | 54.65 | 32273 | 3.54 | | 150 | 499 |

Fee Information:

| Subj Item Id | Multiplier | Units Of Measure | Fee Desc |
|--------------|------------|------------------|--|
| GRP037 | 1 | 1,000 BBL/Day | 0720 - Petroleum Refining (Rated Capacity) |

EMISSION RATES FOR CRITERIA POLLUTANTS

AIID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | PM ₁₀ | | | SO ₂ | | | NOx | | | CO | | | VOC | | |
|---------------------|------------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|--------|-------------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | < | 0.01 < | 0.01 < |
| ARE 014 REMED-E | | | | | | | | | | | | | | | |
| EQT 327 B-76001 | 2.59 | 3.11 | 11.36 | 4.05 | 22.52 | 17.74 | 11.48 | 13.79 | 50.30 | 13.92 | 25.08 | 60.97 | 0.63 | 0.75 | 2.74 |
| EQT 330 FL-76002 | < 0.01 < | 0.01 < | 0.01 | 8.91 | 500.00 | 39.04 | 8.77 | 15.53 | 38.41 | 4.77 | 8.45 | 20.90 | 1.81 | 3.20 | 7.91 |
| EQT 331 H-11001 | | 0.61 | | | | 4.44 | | | | 2.48 | | | 4.95 | | |
| EQT 332 H-11002 | | 0.43 | | | | 3.13 | | | | 1.74 | | | 3.49 | | |
| EQT 333 H-11003 | | 0.32 | | | | 2.31 | | | | 1.29 | | | 2.57 | | |
| EQT 334 H-12001 | | 0.29 | | | | 2.06 | | | | 1.15 | | | 2.30 | | |
| EQT 335 H-12002 | | 0.27 | | | | 1.93 | | | | 1.07 | | | 2.15 | | |
| EQT 336 H-12003 | | 0.40 | | | | 2.89 | | | | 1.61 | | | 3.22 | | |
| EQT 337 RAILCAR | | | | | | | | | | | | | | 0.03 | 0.51 |
| EQT 339 T-66001 | | | | | | | | | | | | | | 0.03 | 3.11 |
| EQT 341 T-66003 | | | | | | | | | | | | | | < 0.01 | 0.99 < 0.01 |
| EQT 344 T-70001 | | | | | | | | | | | | | | | 0.57 |
| EQT 345 T-70002 | | | | | | | | | | | | | | | 0.40 |
| EQT 346 T-70003 | | | | | | | | | | | | | | | 0.38 |
| EQT 347 T-70004 | | | | | | | | | | | | | | | 0.32 |
| EQT 348 T-70005 | | | | | | | | | | | | | | | 0.32 |
| EQT 349 T-70006 | | | | | | | | | | | | | | | 0.32 |

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | PM ₁₀ | | | SO ₂ | | | NOx | | | CO | | | VOC | | |
|--------------------|------------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 350 T-7009 | | | | | | | | | | | | | | | 0.09 |
| EQT 351 T-70010 | | | | | | | | | | | | | | | 0.09 |
| EQT 352 T-70011 | | | | | | | | | | | | | | | 0.31 |
| EQT 353 T-70012 | | | | | | | | | | | | | | | 0.12 |
| EQT 354 T-70013 | | | | | | | | | | | | | | | 0.10 |
| EQT 355 T-70014 | | | | | | | | | | | | | | | 0.10 |
| EQT 356 T-70015 | | | | | | | | | | | | | | | 0.12 |
| EQT 357 T-70016 | | | | | | | | | | | | | | | 0.12 |
| EQT 358 T-70017 | | | | | | | | | | | | | | | 0.31 |
| EQT 359 T-70018 | | | | | | | | | | | | | | | 0.31 |
| EQT 360 T-70019 | | | | | | | | | | | | | | | 0.40 |
| EQT 361 T-70020 | | | | | | | | | | | | | | | 0.40 |
| EQT 362 T-70021 | | | | | | | | | | | | | | | 0.37 |
| EQT 363 T-70022 | | | | | | | | | | | | | | | 0.37 |
| EQT 364 T-70023 | | | | | | | | | | | | | | | 0.34 |
| EQT 365 T-70024 | | | | | | | | | | | | | | | 0.34 |
| EQT 366 T-70025 | | | | | | | | | | | | | | | 0.28 |
| EQT 367 T-70026 | | | | | | | | | | | | | | | 0.07 |

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | PM ₁₀ | | | SO ₂ | | | NOx | | | CO | | | VOC | | |
|--------------------|------------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 368 T-70029 | | | | | | | | | | | | | | | 0.33 |
| EQT 369 T-70030 | | | | | | | | | | | | | | | 0.33 |
| EQT 370 T-70031 | | | | | | | | | | | | | | | 0.33 |
| EQT 371 T-70032 | | | | | | | | | | | | | | | 0.33 |
| EQT 373 T-71001 | | | | | | | | | | | | | | | 0.09 |
| EQT 374 T-72001 | | | | | | | | | | | | | | | 0.25 |
| EQT 378 TRLOAD | | | | | | | | | | | | | | | 0.39 |
| FUG 018 E-1 | | | | | | | | | | | | | | | 0.04 |
| FUG 019 E-2 | | | | | | | | | | | | | | | 0.39 |
| FUG 020 Y-6 | 1.00 | 2.00 | 4.39 | | | | | | | | | | | | 9.13 |
| GRP 034 DSLCP | | | | | | | | | | | | | | | 40.01 |
| GRP 035 HEATCAP | 1.73 | 7.58 | 2.70 | 11.84 | 6.97 | 30.51 | 9.29 | | | | | | | | 17.94 |
| GRP 036 LOCAP | | | | | | | | | | | | | | | 78.56 |
| RLP 074 4-5 SRU | 1.04 | 1.56 | 4.56 | 56.76 | 85.14 | 248.60 | 9.62 | 14.43 | 42.15 | 15.90 | 23.85 | 69.65 | 0.50 | 0.75 | 2.19 |

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 27.89 tons/yr
 SO2: 317.22 tons/yr
 NOx: 161.37 tons/yr
 CO: 192.20 tons/yr

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

VOC: 145.74 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| All phases | | 1,1,1-Trichloroethane | | | 1,2-Dichloroethane | | | 1,3-Butadiene | | | 2,2,4-Trimethylpentane | | | Acetonitrile | | |
|---------------------|-----------|-----------------------|-----------|-----------|--------------------|-----------|-----------|---------------|-----------|-----------|------------------------|-----------|-----------|--------------|-----------|---------|
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | |
| ARE 014 REMED-E | | | | < 0.001 | < 0.001 | < 0.01 | | | | | | | | | | |
| EQT 327 B-76001 | | | | | | | | | | | | | | | | |
| EQT 328 D-68011 | | | | | | | | | | | | | | | | |
| EQT 330 F-76002 | 0.01 | 0.02 | 0.05 | | | | < 0.001 | < 0.001 | < 0.01 | 0.004 | 0.01 | 0.02 | | | | |
| EQT 331 H-11001 | | | | | | | | | | | | | | | | |
| EQT 332 H-11002 | | | | | | | | | | | | | | | | |
| EQT 333 H-11003 | | | | | | | | | | | | | | | | |
| EQT 334 H-12001 | | | | | | | | | | | | | | | | |
| EQT 335 H-12002 | | | | | | | | | | | | | | | | |
| EQT 336 H-12003 | | | | | | | | | | | | | | | | |
| EQT 337 RAILCAR | | | | | | | < 0.001 | < 0.001 | < 0.01 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| EQT 338 SULFURLD | | | | | | | | | | | | | | | | |
| EQT 339 T-68001 | | | | | | | | | | | | | | | | |
| EQT 341 T-68003 | | | | | | | | | | | | | | | | |
| EQT 344 T-70001 | | | | | | | | | | | | | | | | |
| EQT 345 T-70002 | | | | | | | | | | | | | | | | |
| EQT 346 T-70003 | | | | | | | | | | | | | | | | |
| EQT 347 T-70004 | | | | | | | | | | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Ammonia | | | | | | | | | | Aniline | | | | | | | | | | Arsenic (and compounds) | | | | | | | | | | Benzene | | | | | | | | | | Biphenyl | | | | | | | | | |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | | | | | | | | | | | | | | | | |
| ARE 014 REMED-E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 327 B-76001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 328 D-66011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 330 FL-76002 | 0.01 | 0.01 | 0.03 | 0.002 | 0.003 | < | 0.01 | < | 0.001 | < | 0.01 | 0.001 | 0.002 | < | 0.01 | 0.002 | < | 0.01 | 0.002 | 0.003 | < | 0.01 | 0.002 | < | 0.01 | 0.002 | < | 0.01 | 0.003 | < | 0.01 | 0.002 | < | 0.01 | | | | | | | | | | | | | | | |
| EQT 331 H-11001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 332 H-11002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 333 H-11003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 334 H-12001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 335 H-12002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 336 H-12003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 337 RAILCAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 338 SULFURD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 339 T-66001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 341 T-66003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 344 T-70001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 345 T-70002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 346 T-70003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 347 T-70004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| All phases | | | | | | | | | | Cumene | | | | | Diethanolamine | | |
|---------------------|------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|---------|--|
| Subject Item | Carbon disulfide | Carbonyl sulfide | Chlorine | | | | | | | | | | | | | | |
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | | |
| ARE 014 REMED-E | | | | | | | | | | | | | | | | | |
| EQT 327 B-76001 | | | | | | | | | | | | | | | | | |
| EQT 328 D-66011 | | | | | | | | | | | | | | | | | |
| EQT 330 FL-76002 | < 0.001 | 0.001 | < 0.01 | | | | 0.01 | 0.03 | < 0.001 | < 0.001 | < 0.01 | < 0.01 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | |
| EQT 331 H-11091 | | | | | | | | | | | | | | | | | |
| EQT 332 H-11092 | | | | | | | | | | | | | | | | | |
| EQT 333 H-11093 | | | | | | | | | | | | | | | | | |
| EQT 334 H-12001 | | | | | | | | | | | | | | | | | |
| EQT 335 H-12002 | | | | | | | | | | | | | | | | | |
| EQT 336 H-12003 | | | | | | | | | | | | | | | | | |
| EQT 337 RAILCAR | | | | | | | | < 0.001 | < 0.001 | < 0.001 | < 0.01 | | | | | | |
| EQT 338 SULFUR/D | | | | | | | | | | | | | | | | | |
| EQT 339 T-66001 | | | | | | | | | | | | | | | | | |
| EQT 341 T-66003 | | | | | | | | | | | | | v | 0.001 | | | |
| EQT 344 T-70001 | | | | | | | | | | | | | v | v | 0.001 | | |
| EQT 345 T-70002 | | | | | | | | | | | | | v | v | 0.001 | | |
| EQT 346 T-70003 | | | | | | | | | | | | | v | v | 0.001 | | |
| EQT 347 T-70004 | | | | | | | | | | | | | v | v | 0.001 | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | Ethyl benzene | | | Hydrogen sulfide | | | Lead compounds | | | Methanol | | | Methyl Tertiary Butyl Ether | | |
|---------------------|---------------|-----------|-----------|------------------|-----------|-----------|----------------|-----------|-----------|-----------|-----------|-----------|-----------------------------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| ARE 014 REMEDI-E | | | | | | | | | | | | | | | |
| EQT 327 B-76001 | | | | | | | | | | | | | | | |
| EQT 328 D-66011 | | | | | | | | | | | | | | | |
| EQT 330 FL-76002 | < | 0.001 | 0.001 | < | 0.01 | 0.09 | | 5.42 | 0.40 | | | | | | |
| EQT 331 H-11001 | | | | | | | | | | | | | | | |
| EQT 332 H-11002 | | | | | | | | | | | | | | | |
| EQT 333 H-11003 | | | | | | | | | | | | | | | |
| EQT 334 H-12001 | | | | | | | | | | | | | | | |
| EQT 335 H-12002 | | | | | | | | | | | | | | | |
| EQT 336 H-12003 | | | | | | | | | | | | | | | |
| EQT 337 RAILCAR | 0.02 | 0.43 | 0.09 | < | 0.001 | < | 0.001 | < | 0.01 | < | 0.01 | | | | |
| EQT 338 SULFURLO | | | | | | | 0.39 | 18.80 | 1.70 | | | | | | |
| EQT 339 T-66001 | | | | | | | < | 0.001 | < | 0.001 | < | 0.01 | | | |
| EQT 341 T-70001 | | | | | | | < | 0.001 | < | 0.001 | < | 0.01 | | | |
| EQT 344 T-70003 | | | | | | | | < | 0.001 | | | | | | |
| EQT 345 T-70002 | | | | | | | | | < | 0.001 | | | | | |
| EQT 346 T-70003 | | | | | | | | | | < | 0.001 | | | | |
| EQT 347 T-70004 | | | | | | | | | | | < | 0.001 | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Tritte V Regular Permit Minor Mod

All phases

| Subject Item | Naphthalene (and Methyl naph alenes) | | | Nickel (and compounds) | | | Phenol | | | Polynuclear Aromatic Hydrocar bons | | | Pyridine | | |
|--------------|---|-----------|-----------|------------------------|-----------|-----------|-----------|-----------|-----------|---------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| ARE 014 | | | | | | | | | | | | | | | |
| REMEO-E | | | | | | | | | | | | | | | |
| EQT 327 | | | | | | | | | | | | | | | |
| B-76001 | | | | | | | | | | | | | | | |
| EQT 328 | | | | | | | | | | | | | | | |
| D-66011 | | | | | | | | | | | | | | | |
| EQT 330 | 0.01 | 0.01 | 0.02 | | | | | | | 0.003 | 0.005 | 0.01 | 0.004 | 0.01 | 0.003 |
| FL-76002 | | | | | | | | | | | | | | | < 0.01 |
| EQT 331 | | | | | | | | | | | | | | | |
| H-11001 | | | | | | | | | | | | | | | |
| EQT 332 | | | | | | | | | | | | | | | |
| H-11002 | | | | | | | | | | | | | | | |
| EQT 333 | | | | | | | | | | | | | | | |
| H-11003 | | | | | | | | | | | | | | | |
| EQT 334 | | | | | | | | | | | | | | | |
| H-12001 | | | | | | | | | | | | | | | |
| EQT 335 | | | | | | | | | | | | | | | |
| H-12002 | | | | | | | | | | | | | | | |
| EQT 336 | | | | | | | | | | | | | | | |
| H-12003 | | | | | | | | | | | | | | | |
| EQT 337 | 0.005 | 0.09 | 0.02 | | | | | | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| FAILCAR | | | | | | | | | | | | | | | |
| EQT 338 | | | | | | | | | | | | | | | |
| SULFURD | | | | | | | | | | | | | | | |
| EQT 339 | | | | | | | | | | | | | | | |
| T-66001 | | | | | | | | | | | | | | | |
| EQT 341 | | | | | | | | | | | | | | | |
| T-66003 | | | | | | | | | | | | | | | |
| EQT 344 | 0.11 | | | | | | | | | | | | | | |
| T-70001 | | | | | | | | | | | | | | | |
| EQT 345 | 0.07 | | | | | | | | | | | | | | |
| T-70002 | | | | | | | | | | | | | | | |
| EQT 346 | 0.07 | | | | | | | | | | | | | | |
| T-70003 | | | | | | | | | | | | | | | |
| EQT 347 | 0.06 | | | | | | | | | | | | | | |
| T-70004 | | | | | | | | | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Quinoline | | Selenium (and compounds) | | | Styrene | | | Sulfuric acid | | | Toluene | | |
|---------------------|-----------|--------------------------|-----------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|--|
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | |
| ARE 014 REMED-E | | | | | | | | | | | | | |
| EQT 327 B-76001 | | | | | | | | | | 0.06 | 0.35 | 0.27 | |
| EQT 328 D-68011 | | | | | | | | | | < 0.001 | < 0.001 | < 0.01 | |
| EQT 330 FL-76002 | < 0.001 | < 0.001 | < 0.01 | < 0.001 | < 0.01 | < 0.001 | < 0.001 | < 0.01 | < 0.001 | < 0.001 | < 0.004 | 0.01 | |
| EQT 331 H-11001 | | | | | | | | | | | | 0.07 | |
| EQT 332 H-11002 | | | | | | | | | | | | 0.05 | |
| EQT 333 H-11003 | | | | | | | | | | | | 0.04 | |
| EQT 334 H-12001 | | | | | | | | | | | | 0.03 | |
| EQT 335 H-12002 | | | | | | | | | | | | 0.03 | |
| EQT 336 H-12003 | | | | | | | | | | | | 0.04 | |
| EQT 337 RAILCAR | | | | < 0.001 | < 0.001 | < 0.01 | | | | < 0.001 | < 0.001 | < 0.01 | |
| EQT 338 SULFURD | | | | | | | | | | | | | |
| EQT 339 T-68001 | | | | | | | | | | | | | |
| EQT 341 T-68003 | | | | | | | | | | | | | |
| EQT 344 T-70001 | | | | | | | | | | | | | |
| EQT 345 T-70002 | | | | | | | | | | | | | |
| EQT 346 T-70003 | | | | | | | | | | | | | |
| EQT 347 T-70004 | | | | | | | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | Vinyl acetate | | | Xylene (mixed isomers) | | | Zinc (and compounds) | | | n-Hexane | | | para-Phenylenediamine | | |
|--------------|---------------|-----------|-----------|------------------------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------------------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| ARE 014 | | | | | | | | | | | | | | | |
| REMED-E | | | | | | | | | | | | | | | |
| EQT 327 | | | | | | | | | | | | | | | |
| E-76001 | | | | | | | | | | | | | | | |
| EQT 328 | | | | | | | | | | | | | | | |
| D-46011 | | | | | | | | | | | | | | | |
| EQT 330 | < | 0.001 | < | 0.01 | < | 0.003 | 0.01 | 0.004 | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | < | 0.001 |
| FL-76002 | | | | | | | | | | | | | | | 0.01 |
| EQT 331 | | | | | | | | | | | | | | | |
| H-11001 | | | | | | | | | | | | | | | |
| EQT 332 | | | | | | | | | | | | | | | |
| H-11002 | | | | | | | | | | | | | | | |
| EQT 333 | | | | | | | | | | | | | | | |
| H-11003 | | | | | | | | | | | | | | | |
| EQT 334 | | | | | | | | | | | | | | | |
| H-12001 | | | | | | | | | | | | | | | |
| EQT 335 | | | | | | | | | | | | | | | |
| H-12002 | | | | | | | | | | | | | | | |
| EQT 336 | | | | | | | | | | | | | | | |
| H-12003 | | | | | | | | | | | | | | | |
| EQT 337 | | | | | | | | | | 0.004 | 0.08 | 0.02 | | | |
| RAILCAR | | | | | | | | | | | | | | | |
| EQT 338 | | | | | | | | | | | | | | | |
| SULFURLD | | | | | | | | | | | | | | | |
| EQT 339 | | | | | | | | | | | | | | | |
| H-66001 | | | | | | | | | | | | | | | |
| EQT 341 | | | | | | | | | | | | | | | |
| H-66003 | | | | | | | | | | | | | | | |
| EQT 344 | | | | | | | | | | | | | 0.09 | | |
| H-70001 | | | | | | | | | | | | | | | |
| EQT 345 | | | | | | | | | | | | | 0.06 | | |
| H-70002 | | | | | | | | | | | | | | | |
| EQT 346 | | | | | | | | | | | | | 0.06 | | |
| H-70003 | | | | | | | | | | | | | | | |
| EQT 347 | | | | | | | | | | | | | 0.05 | | |
| H-70004 | | | | | | | | | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| EQT 348 1-70005 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 349 1-70006 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 350 1-70009 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 351 1-70010 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 352 1-70011 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 353 1-70012 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 354 1-70013 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 355 1-70014 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 356 1-70015 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 357 1-70016 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 358 1-70017 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 359 1-70018 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 360 1-70019 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 361 1-70020 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 362 1-70021 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 363 1-70022 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 364 1-70023 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |
| EQT 365 1-70024 | | | | | | | | | | | | | < | 0.001 | | | | | | | | | < | 0.001 | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AIID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Ammonia | | Antiline | | Arsenic (and compounds) | | Benzene | | Biphenyl | |
|--------------|-----------|-----------|-----------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 348 | | | | | | | < | 0.001 | |
| T-70005 | | | | | | | < | 0.001 | |
| EQT 349 | | | | | | | < | 0.001 | |
| T-70006 | | | | | | | | | 0.004 |
| EQT 350 | | | | | | | < | 0.001 | |
| T-70009 | | | | | | | < | 0.001 | |
| EQT 351 | | | | | | | < | 0.001 | |
| T-70010 | | | | | | | < | 0.001 | |
| EQT 352 | | | | | | | < | 0.001 | |
| T-70011 | | | | | | | < | 0.001 | |
| EQT 353 | | | | | | | < | 0.001 | |
| T-70012 | | | | | | | < | 0.001 | |
| EQT 354 | | | | | | | < | 0.001 | |
| T-70013 | | | | | | | < | 0.001 | |
| EQT 355 | | | | | | | < | 0.001 | |
| T-70014 | | | | | | | < | 0.001 | |
| EQT 356 | | | | | | | < | 0.001 | |
| T-70015 | | | | | | | < | 0.001 | |
| EQT 357 | | | | | | | < | 0.001 | |
| T-70016 | | | | | | | < | 0.001 | |
| EQT 358 | | | | | | | < | 0.001 | |
| T-70017 | | | | | | | < | 0.001 | |
| EQT 359 | | | | | | | < | 0.001 | |
| T-70018 | | | | | | | < | 0.001 | |
| EQT 360 | | | | | | | < | 0.001 | |
| T-70019 | | | | | | | < | 0.001 | |
| EQT 361 | | | | | | | < | 0.001 | |
| T-70020 | | | | | | | < | 0.001 | |
| EQT 362 | | | | | | | < | 0.001 | |
| T-70021 | | | | | | | < | 0.001 | |
| EQT 363 | | | | | | | < | 0.001 | |
| T-70022 | | | | | | | < | 0.001 | |
| EQT 364 | | | | | | | < | 0.001 | |
| T-70023 | | | | | | | < | 0.001 | |
| EQT 365 | | | | | | | < | 0.001 | |
| T-70024 | | | | | | | < | 0.001 | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| All phases | | | | | | | | | | Cumene | | | | Diethanolamine | | | |
|--------------------|-----------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|-----------|--|--|
| Carbon disulfide | | | | Carbonyl sulfide | | | | Chlorine | | | | | | | | | |
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | | |
| EQT 348 T-70005 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 349 T-70006 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 350 T-70009 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 351 T-70010 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 352 T-70011 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 353 T-70012 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 354 T-70013 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 355 T-70014 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 356 T-70015 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 357 T-70016 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 358 T-70017 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 359 T-70018 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 360 T-70019 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 361 T-70020 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 362 T-70021 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 363 T-70022 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 364 T-70023 | | | | | | | | | | < | 0.001 | | | | | | |
| EQT 365 T-70024 | | | | | | | | | | < | 0.001 | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AIID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | Ethyl benzene | | | Hydrogen sulfide | | | Lead compounds | | | Methanol | | | Methyl Tertiary Butyl Ether | | |
|--------------|---------------|-----------|-----------|------------------|-----------|-----------|----------------|-----------|-----------|-----------|-----------|-----------|-----------------------------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 348 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70005 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| EQT 349 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70006 | | | | | | | | | | | | | | | |
| EQT 350 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70009 | | | | | | | | | | | | | | | |
| EQT 351 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70010 | | | | | | | | | | | | | | | |
| EQT 352 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70011 | | | | | | | | | | | | | | | |
| EQT 353 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70012 | | | | | | | | | | | | | | | |
| EQT 354 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70013 | | | | | | | | | | | | | | | |
| EQT 355 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70014 | | | | | | | | | | | | | | | |
| EQT 356 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70015 | | | | | | | | | | | | | | | |
| EQT 357 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70016 | | | | | | | | | | | | | | | |
| EQT 358 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70017 | | | | | | | | | | | | | | | |
| EQT 359 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70018 | | | | | | | | | | | | | | | |
| EQT 360 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70019 | | | | | | | | | | | | | | | |
| EQT 361 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70020 | | | | | | | | | | | | | | | |
| EQT 362 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70021 | | | | | | | | | | | | | | | |
| EQT 363 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70022 | | | | | | | | | | | | | | | |
| EQT 364 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70023 | | | | | | | | | | | | | | | |
| EQT 365 | < 0.001 | | | < 0.001 | | | < 0.001 | | | | | | | | |
| T-70024 | | | | | | | | | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | Naphthalene (and Methyl napht alenes) | | | Nickel (and compounds) | | | Phenol | | | Polynuclear Aromatic Hydrocar bons | | | Pyridine | | |
|--------------------|--|-----------|-----------|------------------------|-----------|-----------|-----------|-----------|-----------|---------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 348 T-70005 | 0.06 | | | | | | | | | < | 0.001 | | | | |
| EQT 349 T-70006 | 0.06 | | | | | | | | | < | 0.001 | | | | |
| EQT 350 T-70009 | 0.02 | | | | | | | | | < | 0.001 | | | | |
| EQT 351 T-70010 | 0.02 | | | | | | | | | < | 0.001 | | | | |
| EQT 352 T-70011 | 0.06 | | | | | | | | | < | 0.001 | | | | |
| EQT 353 T-70012 | 0.02 | | | | | | | | | < | 0.001 | | | | |
| EQT 354 T-70013 | 0.02 | | | | | | | | | < | 0.001 | | | | |
| EQT 355 T-70014 | 0.02 | | | | | | | | | < | 0.001 | | | | |
| EQT 356 T-70015 | 0.02 | | | | | | | | | < | 0.001 | | | | |
| EQT 357 T-70016 | 0.02 | | | | | | | | | < | 0.001 | | | | |
| EQT 358 T-70017 | 0.06 | | | | | | | | | < | 0.001 | | | | |
| EQT 359 T-70018 | 0.06 | | | | | | | | | < | 0.001 | | | | |
| EQT 360 T-70019 | 0.07 | | | | | | | | | < | 0.001 | | | | |
| EQT 361 T-70020 | 0.07 | | | | | | | | | < | 0.001 | | | | |
| EQT 362 T-70021 | 0.07 | | | | | | | | | < | 0.001 | | | | |
| EQT 363 T-70022 | 0.07 | | | | | | | | | < | 0.001 | | | | |
| EQT 364 T-70023 | 0.06 | | | | | | | | | < | 0.001 | | | | |
| EQT 365 T-70024 | 0.06 | | | | | | | | | < | 0.001 | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| | | Quinoline | | | Selenium (and compounds) | | | Styrene | | | Sulfuric acid | | | Toluene | | |
|--------------|-----------|-----------|-----------|-----------|--------------------------|-----------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|--|
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | |
| EQT 348 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70005 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 349 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70006 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 350 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70009 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 351 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70010 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 352 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70011 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 353 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70012 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 354 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70013 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 355 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70014 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 356 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70015 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 357 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70016 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 358 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70017 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 359 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70018 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 360 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70019 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 361 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70020 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 362 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70021 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 363 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70022 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 364 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70023 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| EQT 365 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |
| T-70024 | | | | | | | < 0.001 | | | | | | | < 0.001 | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | Vinyl acetate | | | Xylenes (mixed isomers) | | | Zinc (and compounds) | | | n-Hexane | | | para-Phenylenediamine | | |
|--------------------|---------------|-----------|-----------|-------------------------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------------------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 348 T-70005 | | | | | | | | | | | | | 0.05 | | |
| EQT 349 T-70006 | | | | | | | | | | | | | 0.05 | | |
| EQT 350 T-70008 | | | | | | | | | | | | | 0.01 | | |
| EQT 351 T-70010 | | | | | | | | | | | | | 0.01 | | |
| EQT 352 T-70011 | | | | | | | | | | | | | 0.05 | | |
| EQT 353 T-70012 | | | | | | | | | | | | | 0.02 | | |
| EQT 354 T-70013 | | | | | | | | | | | | | 0.02 | | |
| EQT 355 T-70014 | | | | | | | | | | | | | 0.02 | | |
| EQT 356 T-70015 | | | | | | | | | | | | | 0.02 | | |
| EQT 357 T-70016 | | | | | | | | | | | | | 0.02 | | |
| EQT 358 T-70017 | | | | | | | | | | | | | 0.05 | | |
| EQT 359 T-70018 | | | | | | | | | | | | | 0.05 | | |
| EQT 360 T-70019 | | | | | | | | | | | | | 0.06 | | |
| EQT 361 T-70020 | | | | | | | | | | | | | 0.06 | | |
| EQT 362 T-70021 | | | | | | | | | | | | | 0.06 | | |
| EQT 363 T-70022 | | | | | | | | | | | | | 0.06 | | |
| EQT 364 T-70023 | | | | | | | | | | | | | 0.05 | | |
| EQT 365 T-70024 | | | | | | | | | | | | | 0.05 | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | 1,1,1-Trichloroethane | | | 1,2-Dichloroethane | | | 1,3-Butadiene | | | 2,2,4-Trimethylpentane | | | Acetonitrile | | |
|--------------|-----------------------|-----------|-----------|--------------------|-----------|-----------|---------------|-----------|-----------|------------------------|-----------|-----------|--------------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 366 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| T-70025 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| EQT 367 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| T-70026 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| EQT 368 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| T-70029 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| EQT 369 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| T-70030 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| EQT 370 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| T-70031 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| EQT 371 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| T-70032 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| EQT 373 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| T-71001 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| EQT 374 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| T-72001 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| EQT 378 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| TKLOAD | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| FUG 018 | | | | | | | | | | 0.08 | | | 0.33 | | |
| E-1 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| FUG 019 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| E-2 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| FUG 020 | | | | | | | | | | < 0.001 | | | 0.02 | | |
| Y-6 | | | | | | | | | | < 0.001 | | | 0.01 | | |
| GRP 034 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| DISLCAP | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| GRP 035 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| HEATCAP | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| GRP 036 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| LOCAP | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| RLP 074 | | | | | | | | | | < 0.001 | | | < 0.001 | | |
| 4-5 SRU | | | | | | | | | | < 0.001 | | | < 0.001 | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Ammonia | | | | | | | | | | Aniline | | | | | | | | | | Arsenic (and compounds) | | | | | | | | | | Benzene | | | | | | | | | | Biphenyl | | | | | | | | | |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | | | | | | | | | | | | | | | | |
| EQT 366 T-70025 | | | | | | | | | | | | | v | 0.001 | | | | | | | | | | | | | | | | | | | 0.004 | | | | | | | | | | | | | | | | |
| EQT 367 T-70026 | | | | | | | | | | | | | v | 0.001 | | | | | | | | | | | | | | | | | | | < | 0.001 | | | | | | | | | | | | | | | |
| EQT 368 T-70029 | | | | | | | | | | | | | v | 0.001 | | | | | | | | | | | | | | | | | | | 0.004 | | | | | | | | | | | | | | | | |
| EQT 369 T-70030 | | | | | | | | | | | | | v | 0.001 | | | | | | | | | | | | | | | | | | | 0.004 | | | | | | | | | | | | | | | | |
| EQT 370 T-70031 | | | | | | | | | | | | | v | 0.001 | | | | | | | | | | | | | | | | | | | 0.004 | | | | | | | | | | | | | | | | |
| EQT 371 T-70032 | | | | | | | | | | | | | v | 0.001 | | | | | | | | | | | | | | | | | | | 0.004 | | | | | | | | | | | | | | | | |
| EQT 373 T-71001 | 0.01 | 0.05 | | | | | | | | | | | v | 0.001 | v | 0.001 | v | 0.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 374 T-72001 | | | | | | | | | | | | | v | 0.001 | v | 0.001 | v | 0.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQT 378 TKLOAD | | | | | | | | | | | | | v | 0.001 | v | 0.001 | v | 0.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FUG 018 E-1 | | | | | | | | | | | | | v | 0.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FUG 019 E-2 | 0.04 | 0.19 | < 0.001 | | | | | | | | | | v | 0.01 | < 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FUG 020 Y-6 | < 0.001 | v | 0.01 | < 0.001 | | | | | | | | | v | 0.01 | < 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRP 034 DSL/CAP | | | | | | | | | | | | | v | 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRP 035 HEAT/CAP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRP 036 LOCAP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RLP 074 4-5 SRU | | | | | | | | | | | | | v | 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AIID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| All phases | | | | | | | | | | Cumene | | | | Diethanolamine | | |
|------------------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|-----------|--|
| Carbon disulfide | | | Carbonyl sulfide | | | Chlorine | | | Cumene | | | | | | | |
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | |
| EQT 366 | | | | | | | | | | < | 0.001 | | | | | |
| T-70025 | | | | | | | | | | < | 0.001 | | | | | |
| EQT 367 | | | | | | | | | | < | 0.001 | | | | | |
| T-70026 | | | | | | | | | | < | 0.001 | | | | | |
| EQT 368 | | | | | | | | | | < | 0.001 | | | | | |
| T-70029 | | | | | | | | | | < | 0.001 | | | | | |
| EQT 369 | | | | | | | | | | < | 0.001 | | | | | |
| T-70030 | | | | | | | | | | < | 0.001 | | | | | |
| EQT 370 | | | | | | | | | | < | 0.001 | | | | | |
| T-70031 | | | | | | | | | | < | 0.001 | | | | | |
| EQT 371 | | | | | | | | | | < | 0.001 | | | | | |
| T-70032 | | | | | | | | | | < | 0.001 | | | | | |
| EQT 373 | | | | | | | | | | < | 0.001 | | | | | |
| T-71001 | | | | | | | | | | < | 0.001 | | | | | |
| EQT 374 | | | | | | | | | | < | 0.001 | | | | | |
| T-72001 | | | | | | | | | | < | 0.001 | | | | | |
| EQT 378 | | | | | | | | | | < | 0.001 | | | | | |
| TKLOAD | | | | | | | | | | < | 0.001 | | | | | |
| FUG 018 | 0.01 | 0.04 | | | | | | | | 0.01 | | | | | | |
| E-1 | | | | | | | | | | 0.01 | | | | | | |
| FUG 019 | < 0.001 | < 0.01 | | | | | | | | 0.22 | < 0.001 | | | | | |
| E-2 | | | | | | | | | | 0.05 | | | | | | |
| FUG 020 | < 0.001 | < 0.01 | | | | | | | | 0.001 | | | | | | |
| Y-6 | | | | | | | | | | 0.22 | < 0.001 | | | | | |
| GRP 034 | | | | | | | | | | 0.001 | | | | | | |
| DISCAP | | | | | | | | | | 0.001 | | | | | | |
| GRP 035 | | | | | | | | | | 0.001 | | | | | | |
| HEATCAP | | | | | | | | | | 0.001 | | | | | | |
| GRP 036 | | | | | | | | | | 0.001 | | | | | | |
| LOCAP | | | | | | | | | | 0.001 | | | | | | |
| RLP 074 | 0.06 | 0.09 | | 0.25 | 0.05 | | 0.07 | | 0.20 | | | | | | | |
| 4-5 SRU | | | | | | | | | | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Ethyl benzene | | Hydrogen sulfide | | | Lead compounds | | | Methanol | | | Methyl Tertiary Butyl Ether | | |
|--------------------|-----------|------------------|-----------|-----------|----------------|-----------|-----------|-----------|-----------|-----------|-----------------------------|-----------|--|
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | |
| EQT 366 T-70025 | < 0.001 | | | < 0.001 | | | | | | | | | |
| EQT 367 T-70026 | < 0.001 | | | < 0.001 | | | | | | | | | |
| EQT 368 T-70029 | < 0.001 | | | < 0.001 | | | | | | | | | |
| EQT 369 T-70030 | < 0.001 | | | < 0.001 | | | | | | | | | |
| EQT 370 T-70031 | < 0.001 | | | < 0.001 | | | | | | | | | |
| EQT 371 T-70032 | < 0.001 | | | < 0.001 | | | | | | | | | |
| EQT 373 T-71001 | | | 0.003 | | | 0.003 | | | 0.01 | | | | |
| EQT 374 T-72001 | < 0.001 | | | < 0.001 | | | | | | | | | |
| EQT 378 TRLOAD | 0.04 | 0.33 | 0.17 | < 0.001 | < 0.001 | < 0.01 | | | | | | | |
| FUG 018 E-1 | 0.08 | | 0.37 | < 0.001 | < 0.001 | < 0.01 | < 0.001 | < 0.01 | < 0.01 | | | | |
| FUG 019 E-2 | 0.001 | | < 0.01 | 0.39 | | 1.73 | < 0.001 | < 0.01 | < 0.01 | | | | |
| FUG 020 Y-6 | 0.01 | | 0.02 | < 0.001 | < 0.001 | < 0.01 | < 0.001 | < 0.01 | < 0.001 | < 0.001 | < 0.001 | < 0.01 | |
| GRP 034 DSLCAP | 0.118 | | 0.52 | < 0.001 | < 0.001 | < 0.01 | | | | | | | |
| GRP 035 HEATCAP | | | | | | | | | | | | | |
| GRP 036 LOCAP | 0.722 | | 3.16 | < 0.001 | < 0.001 | < 0.01 | | | | | | | |
| RLP 074 4.5 SRU | | | | 0.03 | 0.04 | 0.11 | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | Naphthalene (and Methyl napht alenes) | | | Nickel (and compounds) | | | Phenol | | | Polynuclear Aromatic Hydrocar bons | | | Pyridine | | |
|--------------------|---------------------------------------|-----------|-----------|------------------------|-----------|-----------|-----------|-----------|-----------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 366 T-0025 | | 0.05 | | | | | | | | v | 0.001 | | | | |
| EQT 367 T-0026 | | 0.01 | | | | | | | | v | 0.001 | | | | |
| EQT 368 T-0029 | | 0.06 | | | | | | | | v | 0.001 | | | | |
| EQT 369 T-0030 | | 0.06 | | | | | | | | v | 0.001 | | | | |
| EQT 370 T-0031 | | 0.06 | | | | | | | | v | 0.001 | | | | |
| EQT 371 T-0032 | | 0.06 | | | | | | | | v | 0.001 | | | | |
| EQT 373 T-1001 | | | | | | | | | | v | 0.001 | | | | |
| EQT 374 T-2001 | | 0.01 | 0.07 | 0.04 | | | | | | v | 0.001 | | | | |
| EQT 378 TRLOAD | 0.01 | 0.07 | 0.04 | | | | | | | v | 0.001 | | | | |
| FUG 018 | 0.10 | | 0.43 | | | | 0.01 | 0.04 | 0.07 | | 0.33 | 0.01 | | 0.04 | |
| E-1 | | | | | | | v | 0.01 | 0.001 | | v | 0.01 | < 0.001 | v | 0.01 |
| FUG 019 E-2 | 0.02 | | 0.10 | < 0.001 | | | v | 0.01 | 0.002 | | v | 0.01 | < 0.001 | v | 0.01 |
| Y-8 | | | | | | | v | 0.01 | 0.001 | | 0.01 | < 0.001 | | < 0.01 | |
| GRP 034 | 0.021 | | 0.09 | | | | | | | v | 0.001 | | 0.01 | | |
| DSL/CAP | | | | | | | | | | | | | | | |
| GRP 035 | | | | | | | | | | | | | | | |
| HEAT/CAP | | | | | | | | | | | | | | | |
| GRP 036 LOCAP | 0.159 | | 0.70 | | | | | | | v | 0.002 | | 0.01 | | |
| RLP 074 4-5 SRU | | | | | | | | | | | | | | | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| | | Quinoline | | | Selenium (and compounds) | | | Styrene | | | Sulfuric acid | | | Toluene | | |
|--------------------|-----------|-----------|-----------|-----------|--------------------------|-----------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|--|
| Subject Item | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | |
| EQT 366 T-70025 | | | | | | | v | 0.001 | | | | | < | 0.001 | | |
| EQT 367 T-70026 | | | | | | | v | 0.001 | | | | | < | 0.001 | | |
| EQT 368 T-70028 | | | | | | | v | 0.001 | | | | | < | 0.001 | | |
| EQT 369 T-70030 | | | | | | | v | 0.001 | | | | | < | 0.001 | | |
| EQT 370 T-70031 | | | | | | | v | 0.001 | | | | | < | 0.001 | | |
| EQT 371 T-70032 | | | | | | | v | 0.001 | | | | | < | 0.001 | | |
| EQT 373 T-71001 | | | | | | | v | 0.001 | | | | | < | 0.001 | | |
| EQT 374 T-72001 | | | | | | | v | 0.001 | | | | | < | 0.001 | | |
| EQT 378 TRLOAD | | | | | | | v | 0.001 | v | 0.01 | | | < | 0.001 | < 0.01 | |
| FUG 018 E-1 | 0.01 | < 0.001 | | v | 0.01 | | | v | 0.001 | | | | < | 0.001 | < 0.01 | |
| FUG 019 E-2 | v 0.001 | v 0.001 | | v | 0.01 | | | v | 0.32 | | | | 1.42 | 0.004 | 0.02 | |
| FUG 020 Y-6 | v 0.001 | v 0.001 | | v | 0.01 | | | v | 0.01 | | | | 0.02 | 0.08 | | |
| GRP 034 DSLCAP | | | | | | | | | | | | | v | 0.001 | < 0.01 | |
| GRP 035 HEATCAP | | | | | | | | | | | | | 0.04 | 0.18 | | |
| GRP 036 LOCAP | | | | | | | | | | | | | v | 0.001 | < 0.01 | |
| RLP 074 4-5 SRU | | | | | | | | | | | | | | | < 0.01 | |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

| Subject Item | Vinyl acetate | | | Xylene (mixed isomers) | | | Zinc (and compounds) | | | n-Hexane | | | para-Phenylenediamine | | |
|--------------------|---------------|-----------|-----------|------------------------|-----------|-----------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------------------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 366 T-70025 | | | | | | | | | | | | | 0.04 | | |
| EQT 367 T-70026 | | | | | | | | | | | | | 0.01 | | |
| EQT 368 T-70029 | | | | | | | | | | | | | 0.05 | | |
| EQT 369 T-70030 | | | | | | | | | | | | | 0.05 | | |
| EQT 370 T-70031 | | | | | | | | | | | | | 0.05 | | |
| EQT 371 T-70032 | | | | | | | | | | | | | 0.05 | | |
| EQT 373 T-71001 | | | | | | | | | | | | | 0.01 | | |
| EQT 374 T-72001 | | | | | | | | | | | | | | | |
| EQT 378 TRLOAD | | | | | | | | | | | | | 0.01 | 0.06 | 0.03 |
| FUG 018 | 0.01 | 0.04 | 0.31 | | 1.35 | | | | | 0.14 | | 0.61 | 0.01 | | 0.04 |
| FUG 019 E-1 | < 0.001 | < 0.01 | 0.004 | | 0.02 | < 0.001 | | < 0.01 | | 0.005 | | 0.02 | < 0.001 | | < 0.01 |
| FUG 020 Y-6 | < 0.001 | < 0.01 | 0.02 | | 0.10 | | | | | 0.01 | | 0.04 | < 0.001 | | < 0.01 |
| GRP 034 | | | | | | | | | | 0.026 | | 0.11 | | | |
| DISLCAP | | | | | | | | | | | | | | | |
| GRP 035 HEATCAP | | | | | | | | | | | | | | | |
| GRP 036 LOCAP | | | | | | | | | | | | | | | |
| RLP 074 4-6 SRU | | | | | | | | | | 0.129 | | 0.56 | | | |

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,1-Trichloroethane: 0.05 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

1,2-Dichloroethane: <0.01 tons/yr
1,3-Butadiene: <0.01 tons/yr
2,2,4-Trimethylpentane: 0.37 tons/yr
Ammonia: 0.27 tons/yr
Aniline: 0.04 tons/yr
Arsenic (and compounds): <0.01 tons/yr
Benzene: 0.47 tons/yr
Biphenyl: 0.13 tons/yr
Carbon disulfide: 0.29 tons/yr
Carbonyl sulfide: 0.20 tons/yr
Chlorine: 0.25 tons/yr
Cumene: 0.06 tons/yr
Diethanolamine: 0.04 tons/yr
Ethyl benzene: 4.34 tons/yr
Hydrogen sulfide: 3.95 tons/yr
Lead compounds: <0.01 tons/yr
Methanol: <0.01 tons/yr
Methyl Tertiary Butyl Ether: <0.01 tons/yr
n-Hexane: 1.42 tons/yr
Naphthalene (and Methyl naphthalenes): 1.47 tons/yr
para-Phenylenediamine: 0.04 tons/yr
Phenol: 0.05 tons/yr
Polynuclear Aromatic Hydrocarbons: 0.36 tons/yr
Pyridine: 0.04 tons/yr
Quinoline: 0.04 tons/yr
Selenium (and compounds): <0.01 tons/yr
Styrene: <0.01 tons/yr
Sulfuric acid: 2.18 tons/yr
Toluene: 1.36 tons/yr
Vinyl acetate: 0.04 tons/yr
Xylene (mixed isomers): 1.48 tons/yr
Zinc (and compounds): <0.01 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AIID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

All phases

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

ARE014 REMED-E - Excel Paralubes Site Remediation Activities

1 Shall comply with all applicable provisions of 40 CFR 63, Subpart GGGG. [40 CFR 63.7880-7957]

B-76001 - High Pressure Boiler (EP-109)

- 2 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 3 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
- 4 Comply with NSPS Subpart J. [LAC 33:III.1503.C]
- 5 Low-NOx burners (0.06 lb NOx/MM BTU) shall be maintained on this boiler. PSD-LA-584 (M-4). [LAC 33:III.509]
- 6 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average
- 7 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 8 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 9 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 10 Nitrogen oxides <= 0.10 lb/MMBTU (43 ng/J) heat input (expressed as NO2), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.44b]
Which Months: All Year Statistical Basis: Thirty-day rolling average
- 11 Determine compliance with the NOx standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable.
Subpart Db. [40 CFR 60.46b(c)]
- 12 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48(g), (h), and (i).
Subpart Db. [40 CFR 60.48b(b)(1)]
Which Months: All Year Statistical Basis: Hourly average
- 13 Nitrogen oxides recordkeeping by CMS continuously, except as provided in 40 CFR 60.48(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
- 14 Operate NOx continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- 15 Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NOx and opacity continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]
- 16 When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- 17 Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

EQT327 B-76001 - High Pressure Boiler (EP-109)

- 18 Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 19 Submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 20 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 21 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency, except as provided in 40 CFR 60.49b(p). Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 22 Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 23 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 24 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT328 D-66011 - Dome Roof Tank (EP-699)

- 25 Class III TAP only. MACT is not required. [LAC 33:III.S109.A]

EQT330 FL-76002 - West Flare (EP-110)

- 26 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105]
Which Months: All Year Statistical Basis: None specified
- 27 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33:III.1.105]
- 28 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 29 As approved by EPA on June 4, 2004, shall comply with 500 pounds per day SO₂ emission limit as specified in the Consent Decree lodged December 20, 2001 (Civil Action No. H-01-4430). [LAC 33:III.501.C.6]
- 30 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 31 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 32 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 33 Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
- 34 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20060043
Permit Number: 2627-V3
Air - Title V Regular Permit Minor Mod

FL-76002 - West Flare (EP-110)

- 35 Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
36 Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
37 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]

- 38 Which Months: All Year Statistical Basis: None specified
Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]
39 Which Months: All Year Statistical Basis: None specified
Exit Velocity < 60 ft/sec (18.3 m/sec), as determined using the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(7)(i)]
40 Which Months: All Year Statistical Basis: None specified
Meet the requirements of 40 CFR 63.11(b). Subpart CC. [40 CFR 63.643(a)(1)]

- 41 Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, on a dry basis, corrected to 3% oxygen, whichever is less stringent. Subpart CC. [40 CFR 63.643(a)(2)]
Which Months: All Year Statistical Basis: None specified
Infrared sensor capable of continuously detecting the presence of a pilot flame. Subpart CC. [40 CFR 63.644(a)(2)]
42 Presence of a flame monitored by the regulation's specified method(s) continuously. Use a device (including, but not limited to, a thermocouple, an ultraviolet beam sensor, or an infrared sensor) capable of continuously detecting the presence of a pilot flame. Subpart CC. [40 CFR 63.644(a)(2)]

- 43 Which Months: All Year Statistical Basis: None specified
Demonstrate compliance with 40 CFR 63.643 by following 40 CFR 63.116 except for 63.116(a)(1), (d) and (e), except as provided in 40 CFR 63.645(b) through (d) and (i).
Subpart CC. [40 CFR 63.645(a)]
44 Equipment/operational data recordkeeping by recorder hourly. Keep the records specified in 40 CFR 63.654(i)(3)(i) through (i)(3)(v). Subpart CC. [40 CFR 63.654(i)(3)]

EQT331 H-11001 - HDC Hydrogen Heater (EP-101)

- 45 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33.III.1101.B]
Which Months: All Year Statistical Basis: None specified
46 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
47 Comply with NSPS Subpart J. [LAC 33:III.1503.C]
48 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average
49 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
50 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
51 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
52 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

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AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

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Air - Title V Regular Permit Minor Mod

EQT332 H-11002 - HDC Atmospheric Tower Heater (EP-118)

- 53 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 54 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 55 Comply with NSPS Subpart J. [LAC 33:III.1503.C]
- 56 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average
- 57 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 58 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as provided in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
59 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
60 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT333 H-11003 - HDC Vacuum Tower Heater (EP-119)

- 61 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 62 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
- 63 Comply with NSPS Subpart J. [LAC 33:III.1503.C]
- 64 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average
- 65 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 66 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as provided in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
67 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
68 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT334 H-12001 - HDW/HDF Reactor Charge Heater (EP-102)

- 69 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

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Air - Title V Regular Permit Minor Mod

EQT334 H-12001 - HDW/HDF Reactor Charge Heater (EP-102)

- 70 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
- 71 Comply with NSPS Subpart J. [LAC 33:III.1503.C]
- 72 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average
- 73 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified

74 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

75 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

76 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT335 H-12002 - HDW/HDF Atmospheric Heater (EP-144)

- 77 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 78 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
- 79 Comply with NSPS Subpart J. [LAC 33:III.1503.C]
- 80 Low-NOx burners (0.03 lb NOx/MM BTU) shall be maintained on this heater. PSD.LA-584 (M-4). [LAC 33:III.509]
- 81 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average
- 82 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified

83 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

84 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

85 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT336 H-12003 - HDW/HDF Vacuum Tower Heater (EP-103)

- 86 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 87 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

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Air - Title V Regular Permit Minor Mod

EQT336 H-12003 - HDW/HDF Vacuum Tower Heater (EP-103)

88 Comply with NSPS Subpart J. [LAC 33:III.1503.C]

89 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: Three-hour rolling average

90 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified

91 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

92 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

93 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT337 RAILCAR - LOHC Railcar Loading (EP-114)

94 Comply with Louisiana MACT Determination for Refinery dated July 26, 1994. [LAC 33:III.5109.A]

EQT338 SULFURLD - LOHC Sulfur Loading (Rail/Truck) (EP-115)

95 Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT339 T-66001 - Cone Roof Tank (EP-695)

96 Class III TAP. MACT is not required. [LAC 33:III.5109.A]

97 Shall comply with all applicable requirements of 40 CFR 60.116b. [40 CFR 60.116b]

EQT341 T-66003 - Cone Roof Tank (EP-697)

98 Class III TAP. MACT is not required. [LAC 33:III.5109.A]

EQT344 T-70001 - Cone Roof Tank (EP-701)

99 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]

100 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT345 T-70002 - Cone Roof Tank (EP-702)

101 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]

102 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT346 T-70003 - Cone Roof Tank (EP-703)

103 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]

104 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

EQT347 T-00004 - Cone Roof Tank (EP-704)

- 105 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 106 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT348 T-00005 - Cone Roof Tank (EP-705)

- 107 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 108 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT349 T-00006 - Cone Roof Tank (EP-706)

- 109 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 110 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT350 T-00009 - Cone Roof Tank (EP-709)

- 111 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 112 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT351 T-00010 - Cone Roof Tank (EP-710)

- 113 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 114 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT352 T-00011 - Cone Roof Tank (EP-711)

- 115 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 116 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT353 T-00012 - Cone Roof Tank (EP-712)

- 117 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 118 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT354 T-00013 - Cone Roof Tank (EP-713)

- 119 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 120 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT355 T-00014 - Cone Roof Tank (EP-714)

- 121 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 122 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

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Air - Title V Regular Permit Minor Mod

EQT356 T-70015 - Cone Roof Tank (EP-715)

- 123 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
124 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT357 T-70016 - Cone Roof Tank (EP-716)

- 125 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
126 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT358 T-70017 - Cone Roof Tank (EP-717)

- 127 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
128 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]
129 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
130 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT359 T-70018 - Cone Roof Tank (EP-718)

- 131 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
132 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT360 T-70019 - Cone Roof Tank (EP-719)

- 133 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
134 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT361 T-70020 - Cone Roof Tank (EP-720)

- 135 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
136 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT362 T-70021 - Cone Roof Tank (EP-721)

- 137 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
138 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT363 T-70022 - Cone Roof Tank (EP-722)

- 139 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
140 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT364 T-70023 - Cone Roof Tank (EP-723)

- 139 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
140 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

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EQT365 T-70024 - Cone Roof Tank (EP-724)

- 141 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 142 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT366 T-70025 - Cone Roof Tank (EP-725)

- 143 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 144 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT367 T-70026 - Cone Roof Tank (EP-726)

- 145 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 146 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT368 T-70029 - Cone Roof Tank (EP-729)

- 147 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 148 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT369 T-70030 - Cone Roof Tank (EP-730)

- 149 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 150 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT370 T-70031 - Cone Roof Tank (EP-731)

- 151 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 152 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT371 T-70032 - Cone Roof Tank (EP-732)

- 153 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 154 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

EQT373 T-71001 - Internal Floating Roof Tank (EP-360)

- 155 Comply with Louisiana MACT Determination for Refinery dated July 26, 1994. [LAC 33:III.5109.A]

EQT374 T-72001 - Cone Roof Tank (EP-743)

- 156 Very low vapor pressure. No further control is required -Determined as MACT. [LAC 33:III.5109.A]
- 157 Comply with recordkeeping requirement of 40 CFR 63.654(i)(1)(iv). [40 CFR 63.654(i)(1)(iv)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20060043
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EQT378 TKLOAD - LOHC Truck Loading (EP-113)

158 Comply with Louisiana MACT Determination for Refinery dated July 26, 1994. [LAC 33:III.5109.A]

FUG018 E-1 - Excel Paralubes Drain, Sumps and Junction Box Fugitives (EP-121)

- 159 Comply with the requirements of 40 CFR 60.692-2 and 60.692-3. Subpart QQQ. [40 CFR 60.692-4]
 - 160 Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
 - 161 Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]
 - 162 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]
 - 163 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]
 - 164 Submit Notification: Due within 60 days after initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 60 Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Thereafter, submit a certification semiannually that all of the required inspections have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]
 - 165 Submit report: Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]
 - 166 Cover: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.346(a)(1)(i)(A)]
 - 167 Maintain each opening in a closed, sealed position at all times that waste is in the drain system except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.346(a)(1)(i)(C). Subpart FF. [40 CFR 61.346(a)(1)(i)(B)]
 - 168 Install, operate, and maintain a cover and closed-vent system that routes all organic vapors vented from the drain system to a control device. Subpart FF. [40 CFR 61.346(a)(1)]
 - 169 Cover: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access hatches and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.346(a)(2)]
 - Which Months: All Year Statistical Basis: None specified
 - 170 Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.346(a)(3)]
 - 171 Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Inspect equipment installed in accordance with 40 CFR 61.346(b)(1), (b)(2), or (b)(3) as specified in 40 CFR 61.346(b)(4)(i) through (b)(4)(iv). Subpart FF. [40 CFR 61.346(b)(4)]
 - Which Months: All Year Statistical Basis: None specified
 - 172 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
 - 173 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]
 - 174 Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.35763 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20060043
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Air - Title V Regular Permit Minor Mod

FUG019 E-2 - Excel Paralubes Process Fugitives (EP-248)

- 175 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]
- 176 Comply with LAC 33:III.2122 by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.2122]
- 177 The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDSEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units without triggering the need to apply for a permit modification, provided:

- a) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increase except from the fugitive emission components themselves;
 - b) The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping components;
 - c) Actual emissions following the changes will not exceed the emission limits contained in this permit; and
 - d) The components are promptly incorporated into any applicable leak detection or repair program. [LAC 33:III.501.C.6]
- 178 Shall comply the streamlined equipment leak monitoring program specified in Appendix A. [LAC 33:III.501.C.6]
- 179 Identify each piece of equipment in a process unit subject to this MACT determination such that it can be distinguished readily from equipment that is not subject to this MACT determination, as specified in Subsection C.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 180 VOC, Total monitored by technically sound method at the regulation's specified frequency. Monitor equipment that has been physically removed from service, disassembled or dismantled in the next scheduled monitoring period or within 1 year of placing back in service, whichever occurs first, to determine if it is leaking, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 181 VOC, Total recordkeeping by manual logging at the regulation's specified frequency. Maintain a record of the monitoring in the log required in Subsection Q.5, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 182 Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 2000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 183 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, monitor within 5 days. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 184 Pumps in light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection D.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20060043

Permit Number: 2627-V3

Air - Title V Regular Permit Minor Mod

FUG019 E-2 - Excel Paralubes Process Fugitives (EP-248)

- 185 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emissions to the atmosphere, as specified in Paragraph D.4.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection E.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- 186 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in VOTAP service and, if the pump is covered by standards under NSPS, is not in VOC service, as specified in Paragraph D.4.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- 187 Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- 188 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 189 Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily. Check sensor daily or equip with an audible alarm, as specified in Subparagraph D.4.e.i of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in Paragraph D.4.e.ii, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 190 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Subparagraph D.4.e.ii of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- 191 Pumps in light liquid service: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of Section N, as specified in Paragraph D.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections D.1 through D.4. [LAC 33:III.5109.A]
- 192 Compressors (seal system): VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection E.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor to detect leaks using the methods specified in Section P. If an instrument reading of 5000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 193 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided for in Subsections C.4, E.9 and E.10, as specified in Subsection E.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 194 Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure, or equip with a barrier fluid system that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emission to the atmosphere, as specified in Subsection E.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 195 Compressors: Ensure that the barrier fluid is not in VOTAP service and, if the compressor is covered by a standard under NSPS, is not in VOC service, as specified in Subsection E.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 196 Compressors: Equip each barrier fluid system as described in Subsections E.2 through E.4 with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Subsection E.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

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Air - Title V Regular Permit Minor Mod

FUG019 E-2 - Excel Paralubes Process Fugitives (EP-248)

- 197 Compressors: Equipment/operational data monitored by technically sound method daily, as specified in Paragraph E.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Check each sensor as required in Subsection E.5 daily or equip with an audible alarm unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on criterion determined under Paragraph E.6.b, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8. [LAC 33:III.5109.A]
- 198 Compressors: Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Paragraph E.6.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 199 Compressors: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection E.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]
- 200 Compressors: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of Section N, except as provided for in Subsection E.10, as specified in Paragraph E.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections E.1 through E.7. [LAC 33:III.5109.A]
- 201 Compressors (no detectable emissions): Demonstrate that the compressor is operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Subsection P.3, as specified in Paragraph E.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9. [LAC 33:III.5109.A]
- 202 Compressors (no detectable emissions): VOC, Total monitored by the regulation's specified method(s) once initially upon designation, annually, and at other times requested by DEQ, as specified in Paragraph E.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 203 Pressure relief device in gas/vapor service: VOC, Total < 500 ppm except during pressure releases, as measured by the method specified in Section P.3, as specified in Subsection F.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 204 Pressure relief device in gas/vapor service: After each pressure release, return to a condition of no leakage, as indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than five calendar days after each pressure release, except as provided in Section F.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 205 Pressure relief device in gas/vapor service: VOC, Total monitored by the regulation's specified method(s) within 5 days (calendar) after the pressure release to confirm the condition of no leakage, as indicated by an instrument reading of less than 500 ppm above background, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 206 Pressure relief device in gas/vapor service: Equip with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in Section N, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections F.1 and F.2. [LAC 33:III.5109.A]
- 207 Sampling connection systems: Equip with a closed-purge system or closed-vent system, except as provided for in Section C, as specified in Subsection G.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Ensure that this system collects or captures the sample purge for return to the process. [LAC 33:III.5109.A]

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FUG019 E-2 - Excel Paralubes Process Fugitives (EP-248)

- 208 Sampling connection systems (closed-purge or closed-vent system): Return the purged process fluid directly to the process line with zero VOTAP emissions to the atmosphere, or collect and recycle the purged process fluid with zero VOTAP emissions to the atmosphere, or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of Section N, as specified in Subsection G.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 209 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line or during maintenance and repair, as specified in Subsection H.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 210 Open-ended valves or lines (equipped with a second valve): Operate in a manner such that the valve on the process fluid end is closed before the second valve is closed, as specified in Subsection H.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 211 Open-ended valves or lines: Monitor and repair in accordance with Section I, as specified in Subsection H.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 212 Valves in gas/vapor service and in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection I.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 1000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection I.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 213 Valves in gas/vapor service and in light liquid service (percent leaking valves ≥ 4): VOC, Total monitored by the regulation's specified method(s) monthly, as specified in Subsection I.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Monthly monitoring must be initiated within 60 days of the previous monitoring and must continue until the percent of leaking valves is less than 4, at which time monitoring can be performed in accordance with Subsection I.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 214 Valves in gas/vapor service and in light liquid service (percent leaking valves ≤ 2 for two consecutive quarterly leak detection periods): VOC, Total monitored by the regulation's specified method(s) semiannually, as specified in Paragraph J.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 215 Valves in gas/vapor service and in light liquid service (percent leaking valves ≤ 2 for two consecutive semiannual leak detection periods): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring. [LAC 33:III.5109.A]
- 216 Valves in gas/vapor service and in light liquid service (using skip period leak detection and repair): Notify DEQ at least 30 days before implementing one of the alternate monitoring scenarios in Section J, as specified in Paragraph J.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 217 Valves in gas/vapor service and in light liquid service: Repair leaks as soon as practicable, but no later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection I.3 and I.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

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FUG019 E-2 - Excel Paralubes Process Fugitives (EP-248)

- 218 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Subsection I.1, as specified in Subsection I.5.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]
- 219 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, as specified in Subsection I.5.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 220 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than two meters above a support service, as specified in Subsection I.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]
- 221 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve at least once per calendar year, as specified in Subsection I.6.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 222 Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: VOC, Total monitored by the regulation's specified method(s) within 5 days of finding evidence of a potential leak by visual, audible, olfactory, or any other detection method, as specified in Subsection K.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 2000 ppm or greater for pumps or 1000 ppm or greater for valves, connectors, instrument systems, or pressure relief devices is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection K.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 223 Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection K.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]
- 224 Surge control vessels and bottoms receivers: Equip each surge control vessel and bottoms receiver that is not routed back to the process with a closed-vent system that routes the organic vapors vented from the vessel back to the process or to a control device that complies with the requirements of Section N or to an alternate method of control which has been approved by DEQ, as specified in Subsection L of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 225 Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible with a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 226 Comply with the test methods and procedures in Section P, as specified in Subsections P.1 through P.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 227 Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 228 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 229 Submit statement: Due in writing by 90 days after approval of the Compliance Plan/Certificate of Compliance. Submit the information specified in Subsections R.1 and R.3, as specified in Subsections R.1 and R.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

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FUG019 E-2 - Excel Paralubes Process Fugitives (EP-248)

- 230 Submit report: Due quarterly starting three months after the initial report required in Subsection R.1. Include the information specified in Paragraphs R.2.a through R.2.e, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 231 Valves in gas/vapor service and in light liquid service (skip period leak detection and repair): Notify DEQ 30 days before implementing any of the alternate provisions of Section J, as specified in Subsection R.4. of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 232 Comply with 40 CFR 60 Subpart GGG by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with Louisiana Refinery MACT Determination dated July 26, 1994. [40 CFR 60.590]
- 233 Comply with 40 CFR 63 Subpart H, except as provided in 40 CFR 63.648(c) through (i). Subpart CC. [40 CFR 63.648(a)]
- 234 Comply with the provisions of 40 CFR 60 Subpart VV and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a)]
- 235 Comply with the requirements of 40 CFR 63.161 through 63.169, 63.171, 63.172, 63.175, 63.176, 63.177, 63.179, and 63.180 except as specified in 40 CFR 63.648(c)(1) through (c)(10) and (e) through (i). Subpart CC. [40 CFR 63.648(c)]
- 236 Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- 237 Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]

GRP034 DSLCAP - Excel Diesel & Heavier Tank Cap

- 238 Permittee shall comply with emission limit (0.61 TPY VOCs) of Excel Diesel & Heavier Tank Cap by recording the chemicals stored and throughput in the tanks under this cap. All tanks under this cap shall be used to diesel and heavier products. The throughput and chemicals stored shall be recorded each month. The total throughput for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total VOC emissions from the tanks under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing chemicals stored, throughput, and the VOC emissions calculated based on the throughput for each month as well as the twelve consecutive month totals for each month for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31. [LAC 33:III.501.C.6]

GRP035 HEATCAP - Excel Heater Cap

- 239 Permittee shall demonstrate compliance with the Excel Heater Cap emission limits by recording heat input to each of the heaters under this cap. The total heat input to the heaters is limited to 2,034,072 MM BTU (high heating value) per year. The heat input to the heaters shall be recorded each month. The total heat input for last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. The heat input over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the total heat input to the heaters under this cap for the preceding calendar year shall be submitted to Office of Environmental Compliance, Enforcement Division by March 31. [LAC 33:III.501.C.6]

GRP036 LOCAP - Excel Lube Oil Tank Cap (EP-138)

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GRP036 LOCAP - Excel Lube Oil Tank Cap (EP-138)

240 Permittee shall comply with emission limit (3.73 TPY VOCs) of Excel Lube Oil Tank Cap by recording the chemicals stored and throughput in the tanks under this cap. All tanks under this cap shall be used to lake oil products. The throughput and chemicals stored shall be recorded each month. The total throughput for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total VOC emissions from the tanks under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing chemicals stored, throughput, and the VOC emissions calculated based on the throughput for each month as well as the twelve consecutive month totals for each month for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31. [LAC 33:III.501.C.6]

GRP037 Excel Paralubes

- 241 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 242 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 243 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 244 Control emissions of volatile organic compounds from petroleum refinery process unit turnarounds by pumping the liquid contents to storage and depressurizing the processing units to five psig (pounds per square inch gauge) or below before venting to the atmosphere. Control the vapors during the depressurization prior to venting to atmosphere by one of the applicable methods specified in LAC 33:III.2115.A, B, and F. [LAC 33:III.2141.A]
- 245 Keep records and determine compliance as specified in LAC 33:III.2115.I, J, and K. [LAC 33:III.2141.A]
- 246 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 247 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 248 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 249 Particulate matter (10 microns or less) <= 27.89 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 250 Sulfur dioxide <= 317.22 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 251 Nitrogen oxides <= 161.37 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 252 Carbon monoxide <= 192.20 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 253 VOC, Total <= 145.74 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 254 1,1-Trichloroethane <= 0.05 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum

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- 255 1,2-Dichloroethane < 0.01 tons/yr. [LAC 33:III.501.C.6]
 Which Months: Phases: Statistical Basis: Annual maximum
- 256 1,3-Butadiene < 0.01 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 257 2,2,4-Trimethylpentane <= 0.37 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 258 Ammonia <= 0.27 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 259 Aniline <= 0.04 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 260 Arsenic (and compounds) < 0.01 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 261 Benzene <= 0.47 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 262 Biphenyl <= 0.13 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 263 Carbon disulfide <= 0.29 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 264 Carbonyl sulfide <= 0.20 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 265 Chlorine <= 0.25 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 266 Cumene <= 0.06 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 267 Diethanolamine <= 0.04 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 268 Ethyl benzene <= 4.34 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 269 Hydrogen sulfide <= 3.95 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 270 Lead compounds < 0.01 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 271 Methanol < 0.01 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 272 Methyl Tertiary Butyl Ether < 0.01 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 273 Naphthalene (and Methyl naphthalenes) <= 1.47 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 274 Nickel < 0.01 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum

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- 275 Phenol <= 0.05 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 276 Polynuclear Aromatic Hydrocarbons <= 0.36 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 277 Pyridine <= 0.04 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 278 Quinoline <= 0.04 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 279 Selenium (and compounds) < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 280 Styrene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 281 Sulfuric acid <= 2.18 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 282 Toluene <= 1.36 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 283 Vinyl acetate <= 0.04 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 284 Xylene (mixed isomers) <= 1.48 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 285 Zinc (and compounds) < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 286 n-Hexane <= 1.42 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 287 para-Phenylenediamine <= 0.04 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 288 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 289 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 290 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 291 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 292 Submit initial annual emissions report (TEDI) to DEQ within 180 days of December 20, 1991. Identify the quantity of emissions of toxic air pollutants listed in Table 51.1 for the calendar year 1991. [LAC 33:III.5107.A.1]
- 293 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]

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- 294 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 295 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 296 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.2]
- 297 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.3931, except as provided in LAC 33:III.3923. [LAC 33:III.5107.B.3]
- 298 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 299 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 300 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 301 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112. Table 51.2. [LAC 33:III.5109.B]
- 302 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 303 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.1]
- 304 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source. [LAC 33:III.5113.A.2]
- 305 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 306 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]

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- 307 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 308 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 309 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 310 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 311 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 312 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 313 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 314 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 315 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system to begin. [LAC 33:III.5113.C.2]
- 316 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 317 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 318 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 319 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 320 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 321 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 322 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 323 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]
- 324 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 325 Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 326 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]

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- 327 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.561.1. Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 328 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 329 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 330 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 331 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 332 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5907]
- 333 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 334 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 335 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 336 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- 337 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 338 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 339 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]
- 340 Submit report: Due within 90 days after January 7, 1993. Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, by-products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF. [40 CFR 61.357(a)]
- 341 Submit report: Due annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. Submit updates to the information specified in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(c)]
- 342 Notify DEQ of the alternative standard selected in the report required under 40 CFR 61.07 or 61.10. Subpart FF. [40 CFR 61.357(e)]
- 343 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 344 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 345 Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]

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- 346 Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]
- 347 Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]
- 348 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]
- 349 Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999. [40 CFR 68.150]
- 350 Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g). [40 CFR 68.155]
- 351 Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13). [40 CFR 68.160]
- 352 Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13). [40 CFR 68.165]
- 353 Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a). [40 CFR 68.168]
- 354 Provide in the RMP the information indicated in 68.175(b) through (p). [40 CFR 68.175]
- 355 Provide in the RMP the emergency response information listed in 68.180(a) through (c). [40 CFR 68.180]
- 356 Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
- 357 Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 358 Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999. [40 CFR 68.190]
- 359 Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided. [40 CFR 68.200]
- 360 Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences. [40 CFR 68.22]
- 361 Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h). [40 CFR 68.25]
- 362 Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e). [40 CFR 68.28]
- 363 Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.30]
- 364 List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.33]
- 365 Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 366 Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36]
- 367 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses. [40 CFR 68.39]

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- 368 Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release. [40 CFR 68.42]
- 369 Compile written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by 40 CFR 68.
- [40 CFR 68.65(a)]
- 370 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that equipment complies with recognized and generally accepted good engineering practices. [40 CFR 68.65(q)(2)]
- 371 Determine the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 372 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 373 Use one or more of the methodologies in Sec. 68.67(b)(1) through (b)(7) to determine and evaluate the hazards of the process being analyzed. [40 CFR 68.67(b)]
- 374 Use a team with expertise in engineering and process operations to perform the process hazard analysis. Include at least one employee who has experience and knowledge specific to the process being evaluated, and at least one employee who is knowledgeable in the specific process hazard analysis methodology being used. [40 CFR 68.67(d)]
- 375 Establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions. [40 CFR 68.67(e)]
- 376 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the resolution of the recommendations of the team performing the process hazard analysis, and what actions are to be taken. [40 CFR 68.67(e)]
- 377 Update and revalidate the process hazard analysis at least every five years after the completion of the initial process hazard analysis, to assure that the process hazard analysis is consistent with the current process. Use a team that meets the requirements in Sec. 68.67(d). [40 CFR 68.67(f)]
- 378 Retain process hazards analyses and updates or revalidations for each process covered by this section, as well as the documented resolution of recommendations described in Sec. 68.67(e), for the life of the process. [40 CFR 68.67(g)]
- 379 Perform an initial process hazard analysis (hazard evaluation) on processes covered by 40 CFR 68 as soon as possible, but not later than June 21, 1999. The process hazard analysis shall identify, evaluate, and control the hazards involved in the process, and address the information in 40 CFR 68.67(c)(1) through (7). [40 CFR 68.67]
- 380 Develop and implement operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information. Address steps for each operating phase, operating limits, safety and health considerations, and safety systems and their functions in the procedures. [40 CFR 68.69(a)]
- 381 Make operating procedures readily accessible to employees who work in or maintain a process. [40 CFR 68.69(b)]
- 382 Review operating procedures as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment, and changes to stationary sources. Certify annually that these operating procedures are current and accurate. [40 CFR 68.69(c)]
- 383 Develop and implement safe work practices to provide for the control of hazards during specific operations. [40 CFR 68.69(d)]
- 384 Train each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, in an overview of the process and in the operating procedures as specified in Sec. 68.69. Emphasize the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks. [40 CFR 68.71(a)(1)]

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- 385 Provide refresher training at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.71(b)]
- 386 Ascertain that each employee involved in operating a process has received and understood the training required by Sec. 68.71. [40 CFR 68.71(c)]
- 387 Equipment/operational data recordkeeping by electronic or hard copy continuously. Prepare a record which contains the identity of the employee, the date of training required by 40 CFR 68.71, and the means used to verify that the employee understood the training. [40 CFR 68.71(c)]
- 388 Establish and implement written procedures to maintain the ongoing integrity of process equipment listed in Sec. 68.73(a). [40 CFR 68.73(b)]
- 389 Train each employee involved in maintaining the ongoing integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner. [40 CFR 68.73(c)]
- 390 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document each inspection and test that has been performed on process equipment. Maintain records of the information specified in Sec. 68.73(d)(4). [40 CFR 68.73(d)(4)]
- 391 Perform inspections and tests following recognized and generally accepted good engineering practices on process equipment listed in 40 CFR 68.73(a). Make the frequency of inspections and tests consistent with applicable manufacturer's recommendations and good engineering practices, and more frequently if determined to be necessary by prior operating experience. [40 CFR 68.73(d)]
- 392 Correct deficiencies in equipment that are outside acceptable limits before further use or in a safe and timely manner when necessary means are taken to assure safe operation. [40 CFR 68.73(e)]
- 393 Assure that equipment as it is fabricated is suitable for the process application for which it will be used, in the construction of new plants and equipment. Perform appropriate checks and inspections to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions. Assure that maintenance materials, spare parts and equipment are suitable for the process application for which they will be used. [40 CFR 68.73(f)]
- 394 Inform employees involved in operating a process, and maintenance and contract employees whose job tasks will be affected, of a change in the process and train them in the change, prior to start-up of the process or affected part of the process. [40 CFR 68.75(c)]
- 395 Update the process safety information required by Sec. 68.65 if a change covered by 68.75 results in a change in the process safety information. [40 CFR 68.75(d)]
- 396 Update the operating procedures or practices required by Sec. 68.69 if a change covered by 68.75 results in a change in the operating procedures or practices. [40 CFR 68.75(e)]
- 397 Establish and implement written procedures to manage changes to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process. Assure that the considerations specified in Sec. 68.75(b)(1) through (b)(5) are addressed prior to any change. [40 CFR 68.75]
- 398 Perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information. Safety review must confirm the information specified in Sec. 68.77(b)(1) through (b)(4) prior to the introduction of regulated substances to a process. [40 CFR 68.77]
- 399 Develop a report of the findings of the compliance audit required by 40 CFR 68.79(a). [40 CFR 68.79(c)]
- 400 Determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.79(d)]
- 401 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.79(d)]
- 402 Retain the two (2) most recent compliance audit reports. [40 CFR 68.79(e)]
- 403 Conduct compliance audit: Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process. [40 CFR 68.79]
- 404 Establish an incident investigation team consisting of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. [40 CFR 68.81(c)]
- 405 Establish a system to promptly address and resolve the incident report findings and recommendations. [40 CFR 68.81(e)]

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406 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the incident report findings and recommendations. [40 CFR 68.81(e)]

407 Conduct incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in a catastrophic release of a regulated substance. [40 CFR 68.81]

408 Prepare a report at the conclusion of the incident investigation which includes, at a minimum, the information specified in 40 CFR 68.81(d)(1) through (5). Review the report with all affected personnel, whose job tasks are relevant to the incident findings including contract employees where applicable. Retain the incident investigation reports for five years. [40 CFR 68.81]

409 Develop a written plan of action regarding the implementation of the employee participation required by 40 CFR 68. [40 CFR 68.83(a)]

410 Consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management. [40 CFR 68.83(b)]

411 Provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under 40 CFR 68. [40 CFR 68.83(c)]

412 Issue a hot work permit for hot work operations conducted on or near a covered process. Document in the permit that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations; indicate the date(s) authorized for hot work; and identify the object on which hot work is to be performed. Keep permit on file until completion of the hot work operations. [40 CFR 68.85]

413 Obtain and evaluate information regarding the contractor owner or operator's safety performance and programs, when selecting a contractor. [40 CFR 68.87(b)(1)]

414 Inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process. [40 CFR 68.87(b)(2)]

415 Explain to the contract owner or operator the applicable provisions of 40 CFR 68 Subpart E. [40 CFR 68.87(b)(3)]

416 Develop and implement safe work practices consistent with Sec. 68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas. [40 CFR 68.87(b)(4)]

417 Periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in 40 CFR 68.87(c). [40 CFR 68.87(b)(5)]

418 Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]

419 Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]

420 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]

RLP074 4-5 SRU - No. 4/No. 5 SRU Stack (EP-111)

421 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

422 Comply with NSPS Subpart J. [LAC 33:III.1503.C]

423 To ensure compliance with permitted emission limits, permittee shall conduct performance tests for PM, NOx and CO emissions from No. 4/No. 5 SRU stack using test methods and procedures from New Source Performance Standards, 40 CFR 60, Appendix A, Method 5-Determination of Particulate Emissions from Stationary Sources, Method 7E-Determination of Nitrogen Oxides Emissions from Stationary Sources, and Method 10-Determination of Carbon Monoxide emissions from Stationary Sources.
(Note: The tests were performed on the stack between May and June 2001.). [LAC 33:III.501.C.6]

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RLP074 4-5 SRU - No. 4/No. 5 SRU Stack (EP-111)

- 424 Low-NOx burners (0.18 lb NOx/MM BTU) shall be maintained on this unit. PSD-LA-584 (M-4). [LAC 33:III.509]
- 425 Sulfur dioxide <= 250 ppmv @ 0% excess air (dry basis). Subpart J. [40 CFR 60.104(a)(2)(i)]
Which Months: All Year Statistical Basis: 12-hour rolling average
- 426 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. Include an oxygen monitor for correcting the data for excess air. Subpart J. [40 CFR 60.105(a)(5)]
Which Months: All Year Statistical Basis: None specified
- 427 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 428 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 429 Sulfur dioxide <= 250 ppmv (dry basis) at 0% excess air. Subpart UUU. [40 CFR 63.1568(a)(1)]
Which Months: All Year Statistical Basis: 12-hour rolling average
- 430 Demonstrate initial compliance with each applicable emission limitation according to 40 CFR 63 Subpart UUU Table 33. Subpart UUU. [40 CFR 63.1568(b)(5)]
- 431 Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 29 and 30 according to the methods specified in 40 CFR 63 Subpart UUU Tables 34 and 35. Subpart UUU. [40 CFR 63.1568(c)(1)]

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ConocoPhillips Company
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APPENDIX A

STREAMLINED EQUIPMENT LEAK MONITORING PROGRAM

Permittee shall comply with a streamlined equipment leak monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Non-compliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.

- i) Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (LAC 33:III.Chapter 51) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamline program will include any exemptions based on size of component available in any of the programs being streamlined.
- ii) Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules.
- iii) Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on January 31 and July 31, to cover the periods July 1 through December 31 and January 1 through June 30, respectively. The semiannual reports shall include any monitoring performed within the reporting periods.
- iv) The facility shall comply with the requirements of the Louisiana MACT Determination (LDREL) for Refinery Equipment Leaks dated July 26, 1994, except as noted below:
 - A. A connector is in VOTAP service if a piece of equipment that either contains or contacts a volatile fluid (liquid or gas) that is at least 5% of the sum of all Class I and II organic toxic air pollutants.
 - B. Connectors that are determined to be leaking by visual, audible, olfactory, or any other detection method shall be monitored, repaired, recorded, and reported according to the provisions in the Louisiana Refinery Equipment Leaks Determination and any applicable equipment leak programs.

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- C. Connectors associated with valves shall be monitored according to the valve requirements of the applicable program. However, each associated connector shall be monitored as part of the valve and not as separate component. A connector that is associated with a valve and is determined to be leaking shall result in the valve being recorded as a leaking valve and included in the calculation of percent valves leaking.
- D. Permittee shall submit to the Office of Environmental Assessment, Environmental Technology Division reports containing information concerning valves. ConocoPhillips Company shall include on these reports the number of connectors associated with the valves that were monitored and the number of connectors found leaking, but shall not report a percent connectors leaking.

| Unit or Plant Site | Program Being Streamlined | Stream Applicability | Overall Most Stringent Program |
|---------------------------|--|-----------------------------|--|
| Lake Charles Refinery | LAC 33:III.5109 – Louisiana MACT Determination for Refineries | ≥5% VOTAP | Louisiana MACT Determination for Refineries* |
| | 40 CFR 61 Subparts F, J, and V | ≥5% VOHAP | |
| | 40 CFR 60 Subpart GGG | ≥5% VOHAP | |
| | LAC 33:III.2122 – Louisiana Fugitive Emission Control for Specified Parishes | ≥5% VOC | |

* Comply with Louisiana MACT Determination for Refineries with exceptions as listed in paragraph iv.